ZOOPLANKTON VOLUMES OFF THE PACIFIC COAST, 1955

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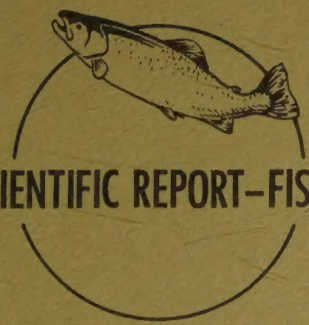

SPECIAL SCIENTIFIC REPORT–FISHERIES No. 177

UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE

EXPLANATORY NOTE

The series embodies results of investigations, usually of restricted scope, intended to aid or direct management or utilization practices and as guides for administrative or legislative action. it is issued in limited quantities for official use of Federal, State or cooperating agencies and in processed form for economy and to avoid delay in publication.

United States Department of the Interior, Fred A. Seaton, Secretary
Fish and Wildlife Service, John L. Farley, Director

ZOOPLANKTON VOLUMES OFF THE PACIFIC COAST, 1955

Prepared by

The Staff of the South Pacific Fishery Investigations

Special Scientific Report--Fisheries No. 177.

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Zooplankton Volumes off the Pacific Coast, 1955

This report, the sixth in a series, contains a record of the volumes of zooplankton collected on survey cruises of the California Cooperative Oceanic Fisheries Investigations off the Pacific coast of California and Baja California during 1955. Survey cruises were made at monthly intervals except in August, September and November. During August, four vessels of the California Cooperative Oceanic Fisheries Investigations cooperated with vessels of other organizations (Pacific Oceanic Fishery Investigations of the United States Fish and Wildlife Service, the University of Washington, the Pacific Oceanographic Group of the Fisheries Research Group of Canada, and a number of Japanese organizations) in making a synoptic oceanographic survey of the Pacific Ocean north of 20° north latitude. The operation has been designated "Norpac", and data collected during this cruise will be published separately. Special cruises were made off southern California in September and November, and data from these also will be published separately.

Vessels participating in cruises during 1955 included the "Crest", "Horizon", "Stranger", "Spencer F. Baird", and "Paolina T.", operated by the Scripps Institution of Oceanography of the University of California, and the "Black Douglas", operated by the South Pacific Fishery Investigations of the United States Fish and Wildlife Service.

The tables in this report are designed to serve a twofold purpose: (1) to record the "wet" volumes of plankton samples collected on 9 survey cruises made in 1955 (columns 9 and 10), and (2) to put on record the data for each haul, including station number (column 1), location (columns 2 and 3), date and time of collection (columns 4-6), volume of water strained (column 7) and the estimated depth of the haul (column 8).

The nets used in the collection of samples, the methods of collection, and procedures followed in standardizing data are identical to those described in previous reports in this series. Each haul was an oblique tow made from approximately 140 meters deep to the surface (depth of water permitting).

Plankton collections are used in studying the early life histories of the sardine and other commercially important or potentially important fishes, and also in studying the productivity of spawning areas. The former investigations are being conducted by the South Pacific Fishery Investigations of the Fish and Wildlife Service, the latter by the Scripps Institution of Oceanography of the University of California. These investigations are part of the California Cooperative Oceanic Fisheries Investigations, a program sponsored by the Marine Research Committee, and carried out by the Scripps Institution of Oceanography of the University of California, the Bureau of Marine Fisheries of the California Department of Fish and Game, the California Academy of Sciences, the Hopkins Marine Station of Stanford University, and the South Pacific Fishery Investigations of the Fish and Wildlife Service.

The earlier publications in this series are the following:

STAFF, SOUTH PACIFIC FISHERY INVESTIGATIONS

1952. Zooplankton volumes off the Pacific coast, 1951. U. S. Dept. Interior, Fish and Wildlife Service, Spec. Sci. Rept: Fisheries No. 73, 37 pp.

1953. Zooplankton volumes off the Pacific coast, 1952. U. S. Dept. Interior, Fish and Wildlife Service, Spec. Sci. Rept: Fisheries No. 100, 41 pp.

1954. Zooplankton volumes off the Pacific coast, 1949-50. U. S. Dept. Interior, Fish and Wildlife Service, Spec. Sci. Rept: Fisheries No. 125, 54 pp.

1954. Zooplankton volumes off the Pacific coast, 1953. U. S. Dept. Interior, Fish and Wildlife Service, Spec. Sci. Rept: Fisheries No. 132, 38 pp.

1955. Zooplankton volumes off the Pacific coast, 1954. U. S. Dept. Interior, Fish and Wildlife Service, Spec. Sci. Rept: Fisheries No. 161, 35 pp.

Plankton Volumes, Cruise 5501, January 1955

Position			(1955)	Time (PST)		Vol. water	Depth of	Vol. per 1000 C.M. strained	
								Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	strained C.M.	haul in meters	cc.	cc.
80.51	34°26.5'	120°32.5'	I-13	1042	1053	390	0-108	23	23
80.55	34°19'	120°48'	I-13	1236	1251	476	0-148	63	63
80.60	34°08.5'	121°08.5'	I-13	1456	1511	455	0-145	299	299
80.70	33°48.5'	121°50.5'	I-13	1941	1956	510	0-140	463	290
80.80	33°28.5'	122°32'	I-14	0021	0036	456	0-143	72	72
83.40	34°13.5'	119°22.5'	I-14	2134	2136	87	0-15	8	8
83.43	34°09'	119°35.5'	I-14	1946	2002	463	0-152	104	104
83.51	33°51.5'	120°08'	I-14	1436	1450	495	0-139	61	61
83.60	33°33.5'	120°45'	I-14	1021	1035	437	0-137	105	105
87.35	33°50'	118°38'	I-15	0226	0241	542	0-122	59	59
87.40	33°40'	118°59'	I-15	0501	0515	464	0-123	86	86
87.50	33°20'	119°41'	I-15	0938	0946	269	0-78	163	163
87.60	32°59'	120°21'	I-15	1351	1406	380	0-145	184	184
90.28	33°28.5'	117°45.5'	I-16	1728	1736	226	0-62	62	62
90.30	33°23.5'	117°55'	I-16	1606	1620	451	0-102	84	84
90.37	33°10'	118°23'	I-16	1211	1225	465	0-145	80	80
90.45	32°54.5'	118°56'	I-16	0811	0826	369	0-138	89	89
90.50	32°46'	119°14'	I-16	0541	0556	548	0-143	95	95
90.60	32°24.5'	119°56'	I-16	0111	0125	476	0-129	124	124
90.70	32°04'	120°38'	I-15	2016	2030	485	0-138	128	128
93.27	32°55'	117°19.5'	I-16	2156	2210	418	0-145	93	93
93.30	32°50'	117°31'	I-19	1211	1226	443	0-152	81	81
93.40	32°30.5'	118°11'	I-19	1816	1830	468	0-138	51	51
93.50	32°09'	118°54'	I-19	2306	2320	461	0-138	167	167
97.30	32°15'	117°08'	I-20	1434	1438	154	0-29	533	533
97.32	32°11.5'	117°17'	I-20	1306	1321	499	0-129	48	48
97.40	31°56'	117°55.5'	I-20	0816	0830	412	0-141	41	41
97.50	31°36'	118°36'	I-20	0336	0350	431	0-139	195	195
100.29	31°42'	116°43.5'	I-20	1846	1901	468	0-136	166	149
100.30	31°40'	116°49'	I-20	1946	2000	472	0-139	72	72
100.40	31°21'	117°27'	I-21	0031	0045	443	0-131	97	97
100.50	31°00'	118°06'	I-21	0516	0530	447	0-141	60	60
100.60	30°41'	118°47'	I-21	1011	1025	422	0-147	71	71
100.70	30°20'	119°27'	I-21	1521	1536	480	0-134	46	46
100.80	30°01'	120°06.5'	I-21	2006	2020	440	0-154	64	64
103.30	31°03.5'	116°25.5'	I-22	2118	2124	217	0-48	97	97
103.35	30°55'	116°45'	I-22	1851	1905	469	0-135	36	36
103.40	30°45'	117°08'	I-22	1556	1611	465	0-134	30	30
103.50	30°28.5'	117°44.5'	I-22	1056	1110	433	0-153	46	46
103.60	30°08'	118°19'	I-22	0631	0645	462	0-140	91	91
107.32	30°26'	116°11'	I-23	0126	0140	538	0-108	33	33
107.35	30°20'	116°23'	I-23	0306	0320	430	0-140	70	70
107.40	30°10'	116°45'	I-23	0541	0555	462	0-141	32	32
107.50	29°51.5'	117°22'	I-23	1011	1026	392	0-140	77	49
107.60	29°31.5'	118°02'	I-23	1441	1455	483	0-141	31	31

Plankton Volumes, Cruise 5501, January 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
			(1955)					Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	cc.	cc.
110.33	29°49'	115°52'	I-24	2308	2316	290	0-77	131	131
110.35	29°46.5'	116°00'	I-24	2141	2155	642	0-138	34	34
110.40	29°36.5'	116°19.5'	I-24	1841	1855	478	0-136	46	46
110.50	29°17'	116°58.5'	I-24	1351	1406	503	0-141	18	18
110.60	28°56.5'	117°38.5'	I-24	0921	0936	490	0-142	33	33
110.70	28°37.5'	118°16'	I-24	0441	0456	497	0-134	64	42
110.80	28°17'	118°56'	I-24	0001	0016	472	0-146	191	93
113.30	29°22.5'	115°17.5'	I-25	0354	0359	168	0-38	125	125
113.35	29°12'	115°39'	I-25	0611	0625	468	0-136	126	126
113.40	29°02'	115°58.5'	I-25	0836	0850	482	0-132	41	41
113.50	28°41'	116°39'	I-25	1316	1330	482	0-133	27	27
113.60	28°21'	117°18'	I-25	1701	1715	446	0-135	63	63
117.26	28°56'	114°41'	I-27	0148	0154	176	0-57	131	131
117.30	28°50.5'	114°58'	I-27	0003	0010	223	0-65	462	462
117.35	28°39'	115°17'	I-26	2116	2130	433	0-138	129	129
117.40	28°28'	115°35.5'	I-26	1841	1856	459	0-137	87	87
117.50	28°08'	116°15'	I-26	0136	0150	436	0-140	106	106
117.60	27°47.5'	116°54'	I-25	2101	2116	382	0-141	115	55
120.25	28°23'	114°14.5'	I-27	0554	0559	189	0-50	212	212
120.30	28°13'	114°35'	I-27	0802	0811	285	0-89	137	137
120.35	28°03'	114°54'	I-27	1028	1036	260	0-76	73	73
120.40	27°53'	115°14'	I-27	1909	1914	161	0-37	180	180
120.45	27°43'	115°33.5'	I-27	2126	2140	448	0-138	123	123
120.50	27°32.5'	115°53.5'	I-27	2351	0005	430	0-142	135	81
120.60	27°13'	116°34'	I-28	0416	0430	449	0-138	94	58
120.70	26°54'	117°11'	I-28	0831	0846	425	0-141	118	49
120.80	26°34'	117°44'	I-28	1246	1300	437	0-138	23	23
120.90	26°12'	118°24'	I-28	1716	1730	477	0-132	42	42
120.100	25°53'	119°06'	I-28	2111	2126	470	0-134	136	62
123.37	27°22.2'	114°42.1	I-28	0347	0354	238	0-67	84	84
123.40	27°17.5'	114°52.7'	I-28	0533	0548	441	0-138	95	95
123.45	27°09.7'	115°13.2'	I-28	0826	0840	430	0-137	123	123
123.50	26°59.2'	115°31.7'	I-28	1126	1140	426	0-132	84	84
123.55	26°50'	115°50'	I-28	1420	1434	414	0-141	133	109
127.34	26°58.2'	114°04.9'	I-27	1902	1909	253	0-66	384	384
127.40	26°40.8'	114°24.3'	I-27	1536	1551	460	0-138	83	83
127.45	26°31'	114°45'	I-27	1228	1243	434	0-141	122	51
127.50	26°22.8'	115°07.1'	I-27	0936	0951	456	0-137	39	39
127.55	26°19.1'	115°28.8'	I-27	0641	0656	446	0-141	94	94
130.30	26°30.2'	113°25.5'	I-26	0643	0650	238	0-59	109	109
130.35	26°17.7'	113°54.2'	I-26	1041	1055	489	0-136	47	47
130.40	26°09.3'	114°04.2'	I-26	1306	1320	496	0-131	40	40
130.50	25°52'	114°47'	I-26	1850	1905	439	0-142	50	50
130.60	25°31.3'	115°23.2'	I-27	0031	0046	465	0-142	37	37
133.25	26°06.2'	112°45.5'	I-26	0035	0042	238	0-59	223	223

Plankton Volumes, Cruise 5501, January 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol.per 1000 C.M.strained	
			(1955)					Total	Sm.org.
Sta.	N.lat.	W.long.	Date	Start	End	C.M.	in meters	cc.	cc.
133.30	25°55.5'	113°06.2'	I-25	2108	2122	480	0-126	158	158
133.40	25°35'	113°46'	I-25	1526	1541	423	0-139	47	47
137.23	25°33.2'	112°20'	I-24	2353	0000	220	0-60	41	41
137.30	25°18.5'	112°46.5'	I-25	0404	0418	454	0-138	40	40
137.40	25°01.4'	113°24.2'	I-25	0941	0956	486	0-133	21	21
140.30	24°43.4'	112°23.5'	I-24	1646	1655	259	0-88	166	166
140.35	24°37'	112°41.2'	I-24	1341	1356	431	0-139	111	111
140.40	24°29.2'	113°00'	I-24	1056	1111	414	0-145	19	19
143.26	24°18.7'	111°48.5'	I-23	2254	2258	164	0-38	323	323
143.30	24°11.7'	112°03.6'	I-24	0116	0131	465	0-140	32	32
143.35	24°02.3'	112°23.3'	I-24	0438	0453	453	0-147	49	49
147.20	23°57'	111°02.7'	I-23	1511	1522	289	0-98	187	187
147.25	23°47.7'	111°22.2'	I-23	1216	1228	391	0-115	49	49
147.30	23°26'	111°34.9'	I-23	0543	0549	150	0-25	40	40
150.19	23°25.3'	110°39.5'	I-22	1636	1651	435	0-144	159	159
150.25	23°13.3'	111°02.2'	I-22	2026	2041	466	0-141	30	30
150.30	23°02'	111°20.2'	I-22	2351	0006	462	0-140	30	30
153.16	22°53.8'	110°07.7'	I-22	0941	0956	432	0-139	42	42
153.20	22°35'	110°15.1'	I-22	0521	0535	395	0-146	35	35
153.30			Occupied. Sample not quantitative						
157.10	22°25'	109°36.5'	I-21	0621	0636	437	0-147	30	30
157.20	22°15.7'	109°59'	I-21	0956	1011	466	0-132	26	26
157.30	21°52.2'	110°37'	I-21	1624	1639	458	0-145	28	28

Plankton Volumes, Cruise 5502, February 1955

80.55	34°19'	120°43'	II-17	2351	0006	441	0-142	304	304
80.60	34°08'	121°01'	II-17	1921	1936	513	0-115	468	468
80.70	33°54.3'	121°42.3'	II-17	1411	1426	494	0-132	253	253
80.80	33°35'	122°23'	II-17	0726	0740	482	0-138	126	97
83.40	34°13'	119°22.7'	II-16	0234	0238	119	0-27	110	110
83.43	34°08.2'	119°34'	II-16	0446	0501	435	0-142	154	154
83.51	33°51.3'	120°07.8'	II-16	1216	1231	481	0-133	125	125
83.60	33°34'	120°45'	II-16	1806	1821	448	0-145	261	212
87.35	33°49.5'	118°38'	II-15	2016	2030	451	0-137	248	175
87.40	33°39.5'	118°58.6'	II-15	1651	1706	453	0-133	203	203
87.50	33°20'	119°40'	II-15	1113	1120	239	0-68	222	222
87.60	33°03.7'	120°20'	II-15	0556	0610	452	0-138	506	380
90.28	33°28.5'	117°45.5'	II-13	1708	1714	205	0-52	112	112
90.30	33°24.2'	117°54.5'	II-13	1906	1920	453	0-141	97	97
90.37	33°11.8'	118°24.7'	II-13	2351	0006	442	0-131	149	149
90.45	32°54.2'	118°58.7'	II-14	0506	0521	459	0-143	196	120
90.50			Occupied. Sample not quantitative						
90.60	32°22.2'	119°58.2'	II-14	1506	1521	454	0-133	150	150
90.70	32°04.2'	120°38'	II-14	2127	2140	431	0-139	715	88

Plankton Volumes, Cruise 5502, February 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol.per 1000 C.M.strained	
			(1955)					Total	Sm.org.
Sta.	N.lat.	W.long.	Date	Start	End	C.M.	in meters	cc.	cc.
93.27	32°56'	117°19'	II-13	1134	1137	113	0-20	115	115
93.30	32°50.5'	117°31.3'	II-13	0821	0835	487	0-130	45	45
93.40	32°33.7'	118°08.4'	II-13	0236	0250	482	0-135	342	118
93.50	32°09.5'	118°50.5'	II-12	1856	1910	454	0-139	268	238
97.30	32°15.2'	117°08.5'	II-11	1809	1814	152	0-39	125	125
97.32	32°11.3'	117°16.8'	II-11	2321	2335	493	0-125	171	171
97.40	31°56'	117°51.2'	II-12	0507	0521	448	0-140	500	370
97.50	31°34'	118°25'	II-12	1216	1230	436	0-136	523	41
100.29	31°42.2'	116°43.7'	II-10	2256	2311	525	0-146	84	84
100.30	31°40.5'	116°47'	II-11	0041	0055	481	0-134	58	58
100.40	31°21'	117°27'	II-11	0607	0622	471	0-136	68	68
100.50	31°00'	118°07'	II-11	1146	1201	453	0-137	194	128
100.60	30°40'	118°47'	II-11	1731	1746	427	0-133	112	112
100.70	30°19'	119°26'	II-11	2251	2305	375	0-129	173	173
100.80	29°59'	120°05'	II-12	0436	0451	455	0-133	215	215
103.30	31°05'	116°25.3'	II-13	0838	0845	235	0-55	153	153
103.35	30°57'	116°45.5'	II-13	0536	0551	427	0-139	190	131
103.40	30°47.5'	117°06'	II-13	0146	0201	412	0-142	70	70
103.50	30°25.5'	117°45'	II-12	2016	2030	416	0-143	212	89
103.60	30°06'	118°24'	II-12	1446	1500	428	0-125	98	98
107.32	30°26'	116°11.5'	II-13	1336	1351	441	0-131	77	77
107.35	30°20.2'	116°23'	II-13	1601	1616	426	0-140	106	106
107.40	30°10'	116°43.5'	II-13	1901	1915	414	0-138	297	63
107.50	29°49'	117°24'	II-14	0031	0046	405	0-134	91	91
107.60	29°29'	118°03'	II-14	0656	0710	446	0-133	108	108
110.33	29°50.5'	115°53'	II-15	2153	2201	236	0-70	394	394
110.35	29°46'	116°00'	II-15	2021	2035	440	0-141	177	177
110.40	29°36.5'	116°19.5'	II-15	1656	1710	426	0-138	59	59
110.50	29°18'	117°00'	II-15	1116	1130	430	0-141	21	21
110.60	28°56'	117°39'	II-15	0531	0546	461	0-141	65	65
110.70	28°36.5'	118°19'	II-14	2316	2330	489	0-137	86	67
110.80	28°16.5'	118°57.3'	II-14	1741	1756	412	0-138	44	44
113.30	29°22.5'	115°17.5'	II-16	0308	0313	173	0-45	718	718
113.35	29°12'	115°39'	II-16	0621	0636	445	0-141	155	155
113.40	29°01.5'	115°59'	II-16	0951	1006	466	0-139	58	58
113.45	28°51'	116°17.5'	II-16	1311	1326	447	0-137	81	81
113.50	28°40'	116°38'	II-16	1626	1640	408	0-151	115	115
113.55	28°30'	116°57'	II-16	1951	2006	431	0-144	246	72
113.60	28°21'	117°15'	II-16	2341	2356	428	0-143	189	108
113.70	28°00'	117°56'	II-17	0511	0526	450	0-138	131	131
117.26	28°55.8'	114°40.9'	II-18	1157	1204	193	0-56	332	332
117.30	28°48.2'	114°56.7'	II-18	0943	0952	280	0-95	285	285
117.35	28°38'	115°16'	II-18	0651	0705	418	0-140	163	163
117.40	28°28'	115°35.5'	II-18	0356	0411	384	0-154	156	156
117.45	28°18.5'	115°55'	II-18	0046	0100	416	0-144	127	127

Plankton Volumes, Cruise 5502, February 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
Sta.	N.lat.	W.long.	(1955) Date	Start	End	C.M.	in meters	Total cc.	Sm.org. cc.
117.50	28°09'	116°15.5'	II-17	2136	2151	435	0-137	140	140
117.55	27°58'	116°36'	II-17	1816	1830	427	0-145	157	98
117.60	27°47.5'	116°55'	II-17	1521	1535	443	0-147	47	47
117.70	27°27.5'	117°33'	II-17	1021	1036	416	0-153	216	216
120.25	28°23'	114°15'	II-18	1613	1618	147	0-43	239	239
120.30	28°13'	114°34'	II-18	1923	1930	210	0-72	285	285
120.35	28°03'	114°55'	II-18	2238	2246	228	0-70	429	429
120.40	27°54.1'	115°18'	II-23	1148	1156	258	0-69	721	721
120.45	27°44.4'	115°37'	II-23	0636	0651	529	0-118	74	74
120.50	27°34.5'	115°48.9'	II-23	0326	0340	442	0-159	82	82
120.55	27°23.8'	116°12.2'	II-22	2316	2330	435	0-159	126	126
120.60	27°14.8'	116°30.5'	II-22	1956	2010	493	0-133	85	85
120.70	26°55.2'	117°09'	II-22	1501	1515	467	0-143	71	71
120.80	26°38.4'	117°48.5'	II-22	0936	0951	528	0-125	23	23
120.90	26°14'	118°32.2'	II-22	0356	0411	553	0-123	54	54
120.100	25°57'	119°06'	II-21	2251	2306	482	0-135	33	33
123.37	27°24.6'	114°40.3'	II-20	1618	1626	337	0-56	142	142
123.40	27°18.4'	114°52.1'	II-20	1816	1831	544	0-123	134	134
123.45	27°07.8'	115°13.8'	II-20	2146	2200	447	0-142	136	136
123.50	26°55.5'	115°33.5'	II-21	0102	0115	435	0-148	76	76
123.55	26°45'	115°51.6'	II-21	0406	0420	548	0-108	60	60
127.34	26°55.4'	114°06.5'	II-20	1048	1056	314	0-57	64	64
127.40	26°56.5'	114°40.4'	II-20	0626	0641	538	0-120	46	46
127.45	26°42.5'	114°58.2'	II-20	0216	0231	521	0-132	221	196
127.50	26°32.5'	115°11.5'	II-19	2311	2326	492	0-140	110	110
127.55	26°20'	115°28'	II-19	1926	1941	538	0-118	61	61
130.30	26°29.5'	113°32'	II-18	1843	1850	267	0-52	112	112
130.35	26°19.8'	113°50.1'	II-18	2126	2140	463	0-138	65	65
130.40	26°07'	114°12'	II-19	0106	0120	479	0-150	109	109
130.50	25°45'	114°52.9'	II-19	0748	0802	500	0-134	52	52
130.60	25°27.5'	115°26'	II-19	1246	1300	465	0-150	26	26
133.25			Occupied. Sample not quantitative						
133.30	25°51'	113°14.6'	II-18	0757	0808	446	0-86	144	144
133.40	25°38'	113°50.2'	II-18	1156	1210	461	0-141	82	82
137.23	25°34.6'	112°19.2'	II-17	2358	0005	264	0-71	326	326
137.30	25°19.5'	112°45'	II-17	2001	2015	471	0-139	108	108
137.40	24°56.7'	113°23.8'	II-17	0746	0801	481	0-139	42	42
140.30	24°45.2'	112°25'	II-16	2027	2038	389	0-105	75	75
140.35	24°34.8'	112°44'	II-16	2306	2320	482	0-135	79	79
140.40	24°23'	113°02.9'	II-17	0241	0255	468	0-145	36	36
143.26	24°19.5'	111°49.6'	II-15	2028	2036	266	0-67	117	117
143.30	24°11.9'	112°04.5'	II-15	1801	1816	513	0-123	29	29
143.35	24°00.8'	112°22.9'	II-15	1421	1435	447	0-150	18	18
147.20	23°59.9'	111°05.7'	II-15	0241	0255	505	0-140	188	188
147.25	23°46.1'	111°27.4'	II-15	0456	0510	474	0-130	72	72

Plankton Volumes, Cruise 5502, February 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
			(1955)					Total	Sm.org.
Sta.	N.lat.	W.long.	Date	Start	End	C.M.	in meters	cc.	cc.
147.30	23°33.5'	111°40.3'	II-15	0756	0810	462	0-147	22	22
150.19	23°24'	110°39'	II-14	2026	2040	471	0-140	191	191
150.25	23°11.8'	111°01.7'	II-14	1626	1640	529	0-124	91	91
150.30	23°02.2'	111°20.3'	II-14	1256	1310	473	0-144	78	78
153.16	22°55'	110°07'	II-13	2106	2120	502	0-142	46	46
153.20	22°47.3'	110°21.8'	II-14	0046	0100	495	0-145	59	59
153.30	22°22'	110°59.3'	II-14	0626	0640	506	0-123	71	71
157.10	22°39'	109°18.2'	II-13	1436	1450	499	0-148	44	44
157.20	22°21.1'	109°56.4'	II-13	0956	0911	611	0-114	23	23
157.30	21°53.2'	110°41'	II-13	0246	0300	510	0-139	182	182

Plankton Volumes, Cruise 5503, March 1955

80.51	34°26'	120°32'	III-16	2236	2251	674	0-105	85	85
80.55	34°19'	120°48'	III-16	2016	2031	386	0-169	657	657
80.60	34°09'	121°09'	III-16	1706	1721	545	0-129	395	147
80.70	33°49'	121°51'	III-16	1230	1246	538	0-137	342	342
80.80	33°29'	122°32'	III-16	0736	0751	501	0-143	164	132
83.40	34°14'	119°22'	III-15	0839	0842	148	0-18	95	95
83.43	34°08'	119°34'	III-15	1006	1021	441	0-149	64	64
83.51	33°52'	120°08.3'	III-15	1451	1506	480	0-145	117	117
83.60	33°34'	120°45'	III-15	1936	1951	506	0-138	190	190
87.35	33°50'	118°37.5'	III-15	0321	0336	549	0-130	66	66
87.40	33°40'	118°58.5'	III-15	0046	0101	477	0-139	147	147
87.50	33°20'	119°39.5'	III-14	1326	1336	319	0-76	56	56
87.60			Not occupied						
90.28	33°28.5'	117°46.7'	III-11	0258	0305	255	0-47	141	141
90.30	33°24'	117°55'	III-11	0426	0440	495	0-135	677	101
90.37	33°11'	118°23'	III-11	0821	0836	509	0-128	165	67
90.45	32°54.5'	118°56'	III-11	1231	1246	486	0-142	86	86
90.50	32°44.6'	119°16.7'	III-11	1510	1525	475	0-136	118	118
90.60	32°25'	119°57'	III-11	2021	2036	473	0-138	294	294
90.70	32°04'	120°39'	III-12	0141	0156	476	0-139	311	311
90.80	31°45'	121°19'	III-12	0736	0751	459	0-142	91	91
90.90	31°25'	121°59'	III-12	1244	1259	460	0-141	317	317
93.27	32°56'	117°19'	III-10	2235	2240	186	0-32	161	161
93.30	32°50'	117°31'	III-10	2046	2101	492	0-142	114	114
93.40	32°30'	118°12.5'	III-10	1541	1556	482	0-130	70	70
93.50	32°10'	118°53'	III-10	1111	1126	445	0-147	265	157
93.60	31°50'	119°34'	III-10	0523	0538	510	0-136	173	173
93.70	31°29'	120°14'	III-9	2351	0006	447	0-154	363	116
97.30	32°15'	117°08'	III-8	2053	2060	288	0-46	83	83
97.32	32°11'	117°17'	III-8	2221	2236	484	0-148	74	74
97.40	31°56'	117°50'	III-9	0226	0240	558	0-125	169	136
97.50	31°35'	118°31'	III-9	0746	0800	555	0-127	18	18

Plankton Volumes, Cruise 5503, March 1955 (cont'd)

Position			(1955)	Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
								Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	cc.	cc.
97.60	31°15'	119°11'	III-9	1219	1233	506	0-134	43	43
97.70	30°55'	119°51'	III-9	1811	1826	560	0-132	64	64
100.29	31°42'	116°43.5'	III-8	1956	2008	474	0-72	388	388
100.30	31°40'	116°47.5'	III-8	2046	2100	456	0-126	79	79
100.40	31°21'	117°26.5'	III-9	0106	0120	462	0-121	190	190
100.50	31°01'	118°07'	III-9	0536	0550	422	0-127	95	95
100.60	30°38.5'	118°42'	III-10	1106	1120	434	0-149	145	145
100.70	30°21.5'	119°26'	III-10	1610	1625	455	0-132	53	53
100.80	30°02'	120°03.5'	III-10	2116	2131	417	0-144	84	84
100.90	29°41.5'	120°40.5'	III-11	0246	0301	434	0-148	64	64
103.30	31°04'	116°25'	III-12	0831	0838	261	0-58	176	176
103.35	30°54'	116°47.5'	III-12	0509	0523	426	0-141	113	113
103.40	30°44.5'	117°08'	III-12	0236	0251	456	0-136	75	75
103.50	30°25'	117°45.5'	III-11	2146	2200	427	0-143	89	89
103.60	30°05.6'	118°23.5'	III-11	1641	1655	460	0-126	61	61
103.70	29°43.5'	119°03'	III-11	1136	1150	507	0-124	28	28
107.32	30°25'	116°11'	III-12	1326	1341	420	0-139	95	95
107.35	30°20'	116°23'	III-12	1416	1431	426	0-147	47	47
107.40	30°07.5'	116°42'	III-12	1806	1821	450	0-131	36	36
107.50	29°50'	117°23.5'	III-12	2326	2341	422	0-146	76	76
107.60	29°27.5'	118°03'	III-13	0500	0520	442	0-141	68	68
107.70	29°11'	118°43'	III-14	0011	0025	497	0-131	52	52
110.33	29°49'	115°52'	III-16	1008	1015	253	0-62	225	225
110.35	29°46'	116°00'	III-16	0826	0841	452	0-138	111	111
110.40	29°39'	116°21.5'	III-16	0526	0541	443	0-143	41	41
110.50	29°18'	117°00'	III-15	2351	0006	471	0-132	51	51
110.60	28°56'	117°37.5'	III-15	1834	1848	436	0-147	69	69
110.70	28°37'	118°18'	III-14	2256	2310	446	0-146	94	94
110.80	28°16.5'	118°57.5'	III-14	1548	1602	452	0-133	31	31
110.90	27°57.5'	119°32'	III-14	1016	1030	405	0-140	39	39
113.30	29°23'	115°17.5'	III-16	1939	1943	124	0-37	389	389
113.35	29°12'	115°39'	III-16	2301	2315	508	0-123	173	173
113.40	29°02'	115°58.5'	III-17	0226	0241	444	0-140	90	90
113.45	28°52'	116°18'	III-17	0616	0631	432	0-140	51	51
113.50	28°40'	116°36'	III-17	0946	1000	442	0-138	77	77
113.55	28°31.5'	116°56.5'	III-17	1416	1431	438	0-143	73	73
113.60	28°22'	117°15'	III-17	1704	1719	418	0-145	29	29
113.70	28°02'	117°55'	III-17	2126	2140	417	0-162	53	53
117.26	28°55'	114°40'	III-19	1819	1826	214	0-70	820	820
117.30	28°48'	114°56'	III-19	1623	1633	282	0-88	383	383
117.35	28°38'	115°15.5'	III-19	1326	1341	413	0-149	140	140
117.40	28°28'	115°35.5'	III-19	1021	1035	405	0-136	79	79
117.45	28°18'	115°55'	III-18	1626	1640	418	0-135	187	187
117.50	28°07.5'	116°16'	III-18	1326	1341	432	0-133	88	88
117.55	27°58'	116°33'	III-18	1031	1045	463	0-128	99	99

Plankton Volumes, Cruise 5503, March 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
			(1955)					Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	cc.	cc.
117.60	27°48'	116°53'	III-18	0736	0750	372	0-143	135	135
117.70	27°27.5'	117°33'	III-18	0226	0241	440	0-143	45	45
120.25	28°23.5'	114°16'	III-19	2259	2304	164	0-52	1,338	1,338
120.30	28°14'	114°35'	III-20	0128	0136	230	0-73	627	627
120.35	28°03'	114°54'	III-20	0425	0432	185	0-65	728	728
120.40	27°56.5'	115°20'	III-20	0726	0733	232	0-63	482	482
120.45	27°44'	115°34'	III-20	0936	0950	436	0-132	378	378
120.50	27°32.5'	115°52.5'	III-20	1226	1241	458	0-127	52	52
120.55	27°20.5'	116°07.8'	III-20	1711	1725	466	0-141	105	105
120.60	27°11.5'	116°28'	III-20	1446	1500	465	0-135	45	45
120.70	26°52.5'	117°10'	III-20	1011	1025	468	0-140	90	90
120.80	26°32'	117°53.5'	III-20	0536	0550	462	0-146	56	56
120.90	26°13'	118°30.4'	III-20	0116	0130	456	0-145	94	94
120.100	25°53'	119°06.5'	III-19	2111	2125	475	0-134	40	40
123.37	27°24'	114°39.7'	III-18	1848	1856	301	0-61	232	232
123.40	27°18'	114°51.5'	III-18	2026	2040	378	0-129	172	172
123.45	27°05.6'	115°14.2'	III-18	2246	2300	449	0-132	109	109
123.50	26°54.2'	115°34.9'	III-19	0111	0125	580	0-103	128	128
123.55	26°43.2'	115°56.1'	III-19	0341	0356	483	0-130	149	149
123.60	26°34.3'	116°14.1'	III-19	0616	0631	481	0-129	75	75
127.34	26°55'	114°06.8'	III-18	1433	1442	275	0-72	84	84
127.40	26°41.8'	114°30'	III-18	1146	1200	530	0-124	98	98
127.45	26°32'	114°51'	III-18	0906	0920	503	0-137	58	58
127.50	26°23.5'	115°10'	III-18	0636	0651	415	0-158	75	75
127.55	26°17'	115°20.5'	III-18	0451	0506	499	0-141	72	72
127.60	26°05.3'	115°40'	III-18	0211	0225	497	0-139	70	70
130.30	26°30'	113°27.7'	III-17	0703	0710	231	0-68	373	373
130.35	26°17.5'	113°44.6'	III-17	1051	1106	490	0-141	65	65
130.40	26°10.5'	114°08.2'	III-17	1326	1340	484	0-136	101	101
130.50	25°52'	114°47'	III-17	1756	1811	517	0-137	44	44
130.60	25°31.5'	115°20'	III-17	2156	2210	445	0-148	49	49
133.25	25°59.6'	112°49.4'	III-17	0138	0146	363	0-66	58	58
133.30	25°50'	113°09'	III-16	2306	2320	464	0-120	123	123
133.40	25°29.1'	113°50.1'	III-16	1806	1821	520	0-131	85	85
133.50	25°13.5'	114°26'	III-16	1356	1410	500	0-137	48	48
133.60	24°59'	115°05.5'	III-16	0916	0931	681	0-96	21	21
137.23	25°32.2'	112°19'	III-15	1143	1150	303	0-73	50	50
137.30	25°20.5'	112°45'	III-15	1446	1501	534	0-117	39	39
137.40	24°59'	113°25.9'	III-15	1831	1846	498	0-139	50	50
137.50	24°39.5'	114°03.6'	III-15	2326	2340	485	0-143	60	60
137.60	24°16.5'	114°40.2'	III-16	0410	0425	461	0-148	50	50
140.30	24°45.4'	112°24.5'	III-15	0637	0647	332	0-79	310	310
140.35	24°32.5'	112°45.5'	III-15	0346	0401	488	0-124	47	47
140.40	24°25.5'	113°02'	III-15	0121	0135	519	0-118	50	50
140.50	24°05'	113°39.5'	III-14	2046	2100	451	0-132	89	89

Plankton Volumes, Cruise 5503, March 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
Sta.	N.lat.	W.long.	(1955) Date	Start	End	C.M.	in meters	Total cc.	Sm.org. cc.
143.26	24°19'	111°46.9'	III-14	0348	0354	181	0-52	338	338
143.30	24°11'	112°03'	III-14	0616	0630	462	0-142	52	52
143.35	24°01'	112°21'	III-14	0851	0905	455	0-136	44	44
143.40	23°50.5'	112°41.1'	III-14	1116	1130	503	0-121	18	18
143.50	23°30'	113°18'	III-14	1536	1551	532	0-116	28	28
147.20	23°56.7'	111°04.3'	III-13	2231	2445	486	0-122	189	189
147.25	23°46'	111°22.5'	III-13	2005	2020	588	0-114	82	82
147.30	23°38.5'	111°39'	III-13	1756	1811	545	0-102	92	92
147.40	23°16.5'	112°18'	III-13	1216	1231	609	0-101	21	21
150.19	23°23.7'	110°39'	III-12	2016	2031	450	0-144	87	87
150.25	23°11.5'	110°58.9'	III-13	0026	0040	518	0-122	66	66
150.30	23°01.9'	111°19.9'	III-13	0256	0310	573	0-110	112	112
150.40	22°41.4'	111°59.8'	III-13	0736	0750	503	0-124	20	20
153.16	22°54.2'	110°04.2'	III-12	1412	1423	409	0-90	66	66
153.20	22°45'	110°21.5'	III-12	1201	1216	547	0-120	26	26
153.30	22°27'	110°59'	III-12	0708	0722	541	0-120	41	41
153.40	22°03.5'	111°36'	III-12	0216	0231	460	0-149	39	39
157.10	22°35'	109°17.9'	III-11	0646	0700	428	0-138	304	304
157.20	22°17.5'	109°57'	III-11	1126	1140	459	0-138	70	70
157.30	21°56'	110°34.5'	III-11	1616	1631	462	0-142	50	50
157.40	21°34.2'	111°15.1'	III-11	2101	2115	529	0-111	57	57

Plankton Volumes, Cruise 5504, April 1955

80.51	34°25.7'	120°32.5'	IV-7	1606	1618	322	0-109	653	529
80.55	34°18.2'	120°46.6'	IV-7	1931	1948	439	0-144	287	287
80.60	34°08.8'	121°08.8'	IV-7	2332	2347	448	0-137	366	366
80,70	34°47.5'	121°49.4'	IV-8	0551	0606	434	0-130	746	562
80.80	33°26.5'	122°31'	IV-8	1240	1255	478	0-134	301	301
80.90	33°06.8'	123°09.6'	IV-8	1931	1946	500	0-133	474	286
83.40			Occupied. Sample not quantitative						
83.43	34°06.5'	119°33.7'	IV-10	1026	1041	478	0-119	188	188
83.51	33°51.7'	120°07.8'	IV-10	0418	0426	240	0-69	628	599
83.60	33°33.5'	120°44'	IV-9	2206	2221	455	0-138	651	651
83.70	33°13.7'	121°25.5'	IV-9	1511	1525	486	0-133	179	167
83.80	32°54'	122°12.6'	IV-9	0756	0811	465	0-138	194	194
83.90	32°36'	122°47.6'	IV-9	0126	0141	482	0-125	440	282
87.35	33°50.3'	118°37.7'	IV-10	1826	1841	468	0-131	147	147
87.40	33°39.5'	118°58'	IV-10	2236	2251	536	0-127	250	250
87.50	33°20'	119°40'	IV-11	0438	0446	233	0-56	516	516
87.60	33°02.5'	120°18.3'	IV-12	1546	1601	488	0-132	168	168
87.70	32°40'	121°00'	IV-12	2211	2226	441	0-134	449	272
87.80	32°19.5'	121°42'	IV-13	0401	0416	461	0-143	425	208
87.90	32°00'	122°22.8'	IV-13	0936	0951	462	0-136	392	223
90.28			Occupied. Sample not quantitative						

Plankton Volumes, Cruise 5504, April 1955 (cont'd)

Position			(1955)	Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	Total cc.	Sm. org. cc.
90.30	33°24.2'	117°54.5'	IV-15	1046	1101	466	0-119	62	62
90.37	33°10.5'	118°23.0'	IV-15	0011	0026	482	0-135	208	208
90.45	32°54.6'	118°56.0'	IV-14	1911	1926	505	0-147	99	99
90.50	32°42.5'	119°15.0'	IV-14	1536	1550	443	0-135	104	104
90.60	32°25.2'	119°54.0'	IV-14	0946	1001	468	0-126	167	167
90.70	32°06.2'	120°37.0'	IV-14	0336	0351	507	0-124	134	134
90.80	31°48.0'	121°19.0'	IV-13	2141	2156	424	0-147	231	231
90.90	31°25.0'	121°58.5'	IV-13	1511	1525	493	0-132	357	276
93.27	32°55.0'	117°18.8'	IV-15	1704	1709	174	0-47	69	69
93.30	32°48.5'	117°31.0'	IV-15	2026	2041	439	0-114	125	125
93.40	32°29.5'	118°11.0'	IV-16	0201	0215	430	0-139	321	135
93.50	32°11.8'	118°52.5'	IV-16	0806	0820	436	0-135	122	122
93.60	31°53.0'	119°35.0'	IV-16	1342	1356	478	0-136	163	163
93.70	31°35.0'	120°08.0'	IV-16	1911	1925	495	0-117	279	218
93.80	31°13.0'	120°50.0'	IV-17	0141	0155	455	0-128	369	255
93.90	30°50.0'	121°33.5'	IV-17	0756	0811	470	0-134	251	251
97.30	32°15.5'	117°09.0'	IV-19	1004	1008	187	0-47	43	43
97.32	32°12.0'	117°18.0'	IV-22	0106	0120	433	0-135	65	65
97.40	31°54.6'	117°51.5'	IV-18	1856	1911	482	0-122	87	87
97.50	31°32.0'	118°31.0'	IV-18	1246	1300	504	0-138	111	111
97.60	31°17.0'	119°06.5'	IV-18	0731	0746	464	0-140	65	65
97.70	30°58.2'	119°50.0'	IV-18	0121	0136	433	0-138	85	85
97.80	30°32.5'	120°31.5'	IV-17	1851	1905	477	0-128	63	63
97.90	30°14.4'	121°10.5'	IV-17	1311	1326	559	0-136	286	286
100.29	31°40.4'	116°43.6'	IV-19	0542	0553	322	0-110	227	227
100.30	31°41.9'	116°46.5'	IV-19	0426	0441	480	0-120	148	148
100.40	31°19.9'	117°26.5'	IV-19	0111	0125	477	0-117	50	50
100.50	30°59.5'	118°08.0'	IV-19	0721	0736	439	0-138	143	143
100.60	30°41.5'	118°46.0'	IV-19	1301	1315	468	0-135	342	342
100.70	30°20.0'	119°21.0'	IV-19	1911	1926	446	0-127	58	58
100.80	30°02.5'	120°01.8'	IV-20	0156	0210	438	0-120	185	185
100.90	29°44.8'	120°41.1'	IV-20	0746	0801	390	0-142	144	144
103.30	31°02.5'	116°24.3'	IV-18	1553	1558	167	0-42	174	174
103.35	30°55.0'	116°45.0'	IV-18	1816	1830	423	0-156	66	66
103.40	30°45.1'	117°05.6'	IV-18	2125	2140	460	0-135	65	65
103.50	30°27.0'	117°41.0'	IV-21	1311	1326	460	0-131	33	33
103.60	30°04.3'	118°23.5'	IV-21	0541	0556	445	0-124	117	117
103.70	29°44.5'	119°05.0'	IV-21	0008	0023	480	0-123	90	90
103.80	29°26.0'	119°44.5'	IV-20	1406	1420	418	0-140	33	33
107.32	30°26.0'	116°11.5'	IV-18	0956	1011	394	0-143	317	317
107.35	30°19.3'	116°21.5'	IV-18	0746	0801	475	0-128	38	38
107.40	30°08.8'	116°39.4'	IV-18	0446	0501	379	0-160	84	84
107.50	29°50.8'	117°20.4'	IV-17	2318	2333	433	0-137	111	111
107.60	29°30.8'	118°02.2'	IV-17	1804	1819	495	0-118	40	40
107.70	29°13.0'	118°40.9'	IV-17	1256	1310	448	0-130	42	42

Plankton Volumes, Cruise 5504, April (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
Sta.	N. lat.	W. long.	(1955) Date	Start	End	C.M.	in meters	Total cc.	Sm. org. cc.
107.80	28°51.0'	119°23.6'	IV-17	0656	0711	442	0-136	52	52
110.33	29°50.5'	115°52.1'	IV-15	1853	1901	228	0-72	184	184
110.35	29°46.6'	116°00.0'	IV-15	1959	2014	526	0-105	51	51
110.40	29°36.5'	116°19.5'	IV-15	2256	2311	385	0-143	75	75
110.50	29°15.7'	116°59.8'	IV-16	0404	0419	405	0-143	64	64
110.60	28°56.3'	117°39.9'	IV-16	0911	0925	463	0-116	24	24
110.70	28°36.5'	118°17.5'	IV-16	1346	1400	457	0-121	55	55
110.80	28°16.1'	118°56.1'	IV-16	1846	1901	497	0-116	78	78
110.90	28°04.0'	119°35.5'	IV-16	2356	0011	449	0-138	45	45
113.30	29°22.6'	115°17.5'	IV-15	1319	1322	89	0-18	167	167
113.35	29°13.2'	115°36.3'	IV-15	1011	1025	392	0-148	153	153
113.40	29°03.4'	115°55.4'	IV-15	0702	0717	465	0-124	438	438
113.45	28°51.1'	116°17.2'	IV-15	0324	0338	444	0-135	68	68
113.50	28°41.9'	116°32.3'	IV-15	0011	0026	433	0-138	81	81
113.55	28°31.8'	116°56.9'	IV-14	2106	2121	454	0-131	66	66
113.60	28°23.0'	117°17.0'	IV-14	1756	1811	464	0-126	73	73
113.70	28°00.0'	117°54.5'	IV-14	1157	1212	384	0-139	91	91
117.26	28°55.6'	114°41.5'	IV-13	0543	0550	256	0-46	1,597	1,597
117.30	28°46.1'	114°56.8'	IV-13	0803	0810	245	0-63	1,141	1,141
117.35	28°39.7'	115°16.1'	IV-13	1011	1026	439	0-141	114	114
117.40	28°26.1'	115°34.8'	IV-13	1316	1330	439	0-116	96	96
117.45	28°17.7'	115°56.8'	IV-13	1624	1639	398	0-122	85	85
117.50	28°08.6'	116°16.4'	IV-13	1922	1937	366	0-134	101	101
117.55	27°57.5'	116°34.6'	IV-13	2306	2321	405	0-116	465	465
117.60	27°46.1'	116°56.6'	IV-14	0221	0236	425	0-124	160	160
117.70	27°27.8'	117°31.0'	IV-14	0631	0646	384	0-135	125	125
120.25	28°22.8'	114°14.2'	IV-13	0057	0105	197	0-48	936	814
120.30	28°13.8'	114°34.0'	IV-12	2212	2219	222	0-66	6,621	6,621
120.35	28°02.0'	114°51.8'	IV-12	1938	1946	216	0-79	2,146	2,146
120.40	27°57.6'	115°15.3'	IV-12	1102	1106	165	0-37	12,128	12,128
120.45	27°42.5'	115°33.4'	IV-12	0756	0810	483	0-120	1,159	1,159
120.50	27°34.5'	115°39.0'	IV-12	0532	0547	413	0-157	97	97
120.55	27°26.0'	116°01.0'	IV-12	0134	0148	532	0-122	66	66
120.60	27°16.6'	116°27.2'	IV-11	2201	2215	474	0-135	97	97
120.70	26°53.1'	117°10.1'	IV-11	1611	1626	489	0-130	43	43
120.80	26°24.2'	117°44.6'	IV-11	0921	0935	435	0-149	34	34
123.37	27°24.6'	114°40.3'	IV-9	2238	2244	196	0-50	644	644
123.40	27°17.4'	114°51.1'	IV-10	0011	0026	501	0-119	239	239
123.45	27°05.7'	115°10.7'	IV-10	0326	0341	465	0-126	64	64
123.50	26°55.2'	115°29.8'	IV-10	1804	1819	460	0-136	50	50
123.55	26°48.4'	115°48.1'	IV-10	2041	2055	445	0-141	61	61
123.60	26°37.5'	116°06.5'	IV-10	1946	2000	482	0-129	62	62
127.34	26°55.1'	114°06.0'	IV-9	1803	1808	176	0-38	729	729
127.40	26°41.3'	114°30.1'	IV-9	1432	1447	494	0-127	57	57
127.45	26°34.6'	114°49.0'	IV-9	1141	1156	474	0-136	55	55

Plankton Volumes, Cruise 5504, April (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
			(1955)					Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	cc.	cc.
127.50	26°23.2'	115°07.9'	IV-9	0836	0850	428	0-151	68	68
127.55	26°12.0'	115°25.5'	IV-9	0346	0400	432	0-146	102	102
127.60	26°03.2'	115°45.8'	IV-9	0026	0041	495	0-134	63	63
130.30	26°30.6'	113°27.1'	IV-8	0241	0248	337	0-54	208	208
130.35	26°16.2'	113°47.5'	IV-8	0508	0523	511	0-110	223	223
130.40	26°08.0'	114°06.5'	IV-8	0741	0755	520	0-111	117	117
130.50	25°47.5'	114°46.0'	IV-8	1441	1456	495	0-127	51	51
130.60	25°30.0'	115°23.0'	IV-8	1914	1929	437	0-151	119	64
133.25	26°05.2'	112°47.9'	IV-7	2218	2225	279	0-56	258	258
133.30	25°54.5'	113°07.5'	IV-7	1936	1950	475	0-137	471	471
133.40	25°34.2'	113°45.0'	IV-7	0956	1011	459	0-132	35	35
133.50	25°16.8'	114°25.4'	IV-7	0446	0501	419	0-158	72	72
137.23	25°35.0'	112°15.0'	IV-6	1108	1116	272	0-63	11	11
137.30	25°17.1'	112°50.8'	IV-6	1433	1440	301	0-58	33	33
137.40	24°58.4'	113°25.3'	IV-6	1836	1851	456	0-140	64	64
137.50	24°38.5'	114°01.6'	IV-6	2316	2330	506	0-134	105	105

Plankton Volumes, Cruise 5505, May 1955

63.52	37°19'	122°36'	V-19	0506	0520	437	0-138	286	286
63.55	37°13'	122°50.4'	V-19	0641	0656	544	0-128	276	276
63.65	36°53'	123°32'	V-19	1146	1200	529	0-140	340	340
67.50	36°49'	122°04.6'	V-20	0023	0030	326	0-57	1,818	1,606
67.55	36°39'	122°26'	V-19	2141	2155	522	0-133	1,182	841
67.65	36°19'	123°09'	V-19	1626	1640	482	0-132	639	255
70.52	36°08'	121°50'	V-20	0540	0554	500	0-133	270	200
70.55	36°03'	122°02'	V-20	0726	0740	481	0-144	301	301
70.60	35°53'	122°23'	V-20	0952	1006	465	0-137	266	266
70.70	35°33'	123°06'	V-20	1501	1516	443	0-131	506	420
77.50	35°04.5'	120°52'	V-22	0157	0208	408	0-98	579	442
77.55	34°55'	121°13'	V-21	2248	2303	488	0-133	701	516
77.65	34°34'	121°55'	V-22	1726	1740	524	0-132	1,181	902
77.70	34°24'	122°16'	V-22	2031	2046	496	0-141	1,653	1,110
77.80	34°05'	122°58'	V-23	0120	0135	424	0-166	2,106	1,984
77.90	33°44'	123°39'	V-23	0704	0718	501	0-135	890	890
80.51	34°27'	120°32'	V-24	1230	1237	177	0-97	198	198
80.55	34°19'	120°48'	V-24	1025	1040	528	0-146	117	117
80.60	34°09'	121°09'	V-24	0521	0536	478	0-135	339	339
80.70	33°49'	121°51'	V-23	2353	0007	487	0-133	780	534
80.80	33°29'	122°32'	V-23	1813	1828	480	0-135	2,840	379
80.90	33°09'	123°13'	V-23	1306	1321	465	0-146	392	323
83.40	34°14'	119°22'	V-25	0139	0143	132	0-27	46	46
83.43	34°08'	119°34'	V-25	0326	0341	558	0-136	358	358
83.51	33°52'	120°08.5'	V-25	0936	0950	467	0-138	122	122
83.60	33°34'	120°45'	V-25	1516	1531	476	0-149	222	222

Plankton Volumes, Cruise 5505, May (cont'd)

Sta.	Position N.lat.	W.long.	(1955) Date	Time (PST) Start	End	Vol. water strained C.M.	Depth of haul in meters	Vol. per 1000 C.M. strained Total cc.	Sm. org. cc.
83.70	33°14'	121°26'	V-25	2056	2111	Sample not quantitative			
87.35	33°50'	118°38'	V-27	0326	0337	400	0-98	764	340
87.40	33°40'	118°58.5'	V-26	2236	2250	448	0-143	183	183
87.45	33°30'	119°19'	V-26	1931	1945	538	0-127	253	179
87.50	33°20'	119°39'	V-26	1638	1645	226	0-59	305	305
87.55	33°10'	120°01'	V-26	1321	1335	519	0-137	414	173
87.60	33°00'	120°21'	V-26	0901	0916	463	0-144	432	432
90.28	33°28.5'	117°46.7'	V-27	1946	2001	497	0-135	332	191
90.30	33°24.5'	117°55'	V-27	2126	2140	478	0-138	155	155
90.37	33°11'	118°23'	V-28	0046	0100	477	0-126	101	101
90.45	32°55'	118°56'	V-28	0526	0540	502	0-140	298	183
90.50	32°44'	119°16.5'	V-28	0846	0900	471	0-137	217	217
90.55	32°34'	119°36.5'	V-28	1156	1211	473	0-140	338	338
90.60	32°25'	119°58'	V-28	1516	1530	508	0-137	217	217
90.65	32°15'	120°19'	V-28	1801	1815	473	0-135	817	817
90.70	32°04'	120°39'	V-28	2116	2131	464	0-141	403	403
90.75	31°54'	120°58'	V-29	0056	0110	456	0-140	505	329
90.80	31°45'	121°19'	V-29	0356	0411	469	0-142	100	100
90.85	31°33'	121°41'	V-29	0746	0801	476	0-140	122	122
90.90	31°25'	121°59'	V-29	1046	1101	488	0-140	226	62
93.27	32°56'	117°19'	V-31	1227	1238	334	0-108	66	66
93.30	32°50'	117°31.5'	V-31	1001	1016	447	0-139	323	323
93.35	32°40'	117°52'	V-31	0656	0711	455	0-138	42	42
93.40	32°30'	118°13'	V-31	0316	0330	480	0-135	102	102
93.45	32°20'	118°32'	V-31	0011	0026	483	0-151	141	141
93.50	32°10'	118°53.5'	V-30	2056	2110	474	0-146	123	123
93.55	32°00'	119°14'	V-30	1756	1810	452	0-139	166	166
93.60	31°50'	119°34'	V-30	1416	1430	465	0-142	82	82
93.65	31°40'	119°55'	V-30	1126	1141	502	0-141	68	68
93.70	31°28'	120°10'	V-30	0816	0830	472	0-141	74	74
93.75	31°18'	120°32'	V-30	0456	0511	465	0-138	568	203
93.80	31°09'	120°54.5'	V-30	0156	0211	572	0-130	3,356	2,989
93.85	30°59'	121°14'	V-29	2226	2240	496	0-138	1,229	584
93.90	30°50'	121°35'	V-29	1911	1926	506	0-139	375	296
93.95	30°41'	121°56'	V-29	1611	1625	502	0-140	189	70
97.30	32°15.4'	117°08.8'	VI-5	2213	2220	219	0-56	206	206
97.32	32°11.5'	117°17'	VI-5	2326	2341	439	0-139	109	109
97.35	32°05.5'	117°29'	VI-6	0111	0125	467	0-130	324	324
97.40	31°56'	117°50'	VI-6	0426	0440	452	0-135	115	115
97.45	31°44'	118°09'	VI-6	0721	0736	416	0-137	197	197
97.50	31°35.5'	118°30.5'	VI-6	1021	1036	430	0-143	114	114
97.55	31°25.5'	118°49'	VI-6	1256	1311	429	0-139	634	168
97.60	31°15.5'	119°10.5'	VI-6	1611	1626	383	0-147	136	136
97.65	31°06'	119°30'	VI-6	1921	1936	375	0-139	296	296
97.70	30°55'	119°50.5	VI-6	2206	2221	396	0-138	162	162

Plankton Volumes, Cruise 5505, May 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
			(1955)					Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	cc.	cc.
97.75	30°45'	120°13'	VI-7	0056	0111	444	0-136	162	162
97.80	30°36'	120°31'	VI-7	0411	0426	416	0-174	591	457
97.85	30°25'	120°51'	VI-7	0706	0721	385	0-144	595	595
97.90	30°15'	121°11'	VI-7	1016	1031	408	0-142	394	149
100.29	31°42'	116°43'	VI-5	1651	1705	440	0-141	109	109
100.30	31°40.5'	116°46.5'	VI-5	1556	1611	441	0-141	82	82
100.35	31°31'	117°07'	VI-5	1126	1141	466	0-144	58	58
100.40	31°21'	117°27'	VI-5	0816	0831	488	0-138	111	111
100.45	31°11'	117°46'	VI-5	0526	0541	448	0-138	132	132
100.50	31°01'	118°07'	VI-5	0211	0226	414	0-158	92	92
100.55	30°51'	118°27'	VI-4	2321	2336	535	0-139	353	101
100.60	30°41'	118°47.5'	VI-4	2016	2031	425	0-135	358	94
100.65	30°31'	119°07'	VI-4	1711	1726	476	0-142	55	55
100.70	30°20.5'	119°27'	VI-4	1416	1431	493	0-134	61	61
100.75	30°10.7'	119°47'	VI-4	1116	1131	504	0-143	38	38
100.80	30°01'	120°07'	VI-4	0826	0841	461	0-140	976	304
100.85	29°51'	120°27.5'	VI-4	0556	0611	441	0-142	1,014	635
100.90	29°40'	120°47'	VI-4	0216	0230	456	0-142	154	110
103.30	31°06'	116°25'	VI-2	0643	0650	224	0-68	286	286
103.35	30°55.5'	116°45'	VI-2	0921	0936	459	0-141	65	65
103.40	30°45.5'	117°05.5'	VI-2	1226	1241	446	0-141	56	56
103.45	30°36'	117°25'	VI-2	1556	1610	469	0-134	38	38
103.50	30°25'	117°46'	VI-2	1930	1946	433	0-140	111	111
103.55	30°16'	118°05'	VI-2	2241	2255	422	0-136	489	275
103.60	30°06'	118°25.5'	VI-3	0126	0140	456	0-141	75	75
103.65	29°57'	118°43.5'	VI-3	0406	0420	433	0-145	142	142
103.70	29°46'	119°05.5'	VI-3	0811	0825	454	0-131	236	93
103.75	29°36'	119°25.5'	VI-3	1126	1141	433	0-134	266	266
103.80	29°26.5'	119°45.5'	VI-3	1426	1441	461	0-138	147	147
103.85	29°16'	120°06'	VI-3	1756	1811	444	0-138	122	63
103.90	29°06'	120°25'	VI-3	2106	2121	441	0-140	82	82
107.32	30°25.8'	116°11.1'	VI-1	0541	0556	431	0-142	230	230
107.35	30°16.8'	116°21.0'	VI-1	0348	0402	436	0-136	293	293
107.40	30°07.2'	116°41.5'	VI-1	0107	0122	527	0-130	137	137
107.45	29°57.7'	117°02.0'	V-31	2156	2210	467	0-143	137	137
107.50	29°49.5'	117°24'	V-31	1911	1926	448	0-138	190	190
107.55	29°41.0'	117°41.5'	V-31	1631	1646	508	0-138	51	51
107.60	29°31.5'	117°59.7'	V-31	1401	1416	485	0-135	74	74
107.65	29°21.5'	118°23.0'	V-31	1012	1027	476	0-148	50	50
107.70	29°13.0'	118°42.5'	V-31	0808	0822	468	0-148	85	85
107.75	29°03.5'	119°02.5'	V-31	0511	0526	471	0-143	72	72
107.80	28°52.0'	119°23.5'	V-31	0231	0246	497	0-142	80	80
107.85	28°41.5'	119°42.0'	V-30	2326	2340	465	0-144	138	138
107.90	28°31.5'	120°01.0'	V-30	2036	2050	490	0-147	90	90
110.33	29°50.5'	115°52.5'	V-29	0827	0838	343	0-96	350	350

Plankton Volumes, Cruise 5505, May 1955 (cont'd)

Sta.	Position N.lat.	W.long.	(1955) Date	Time (PST) Start	End	Vol. water strained C.M.	Depth of haul in meters	Vol.per 1000 C.M.strained Total cc.	Sm.org. cc.
110.35	29°46.5'	116°00'	V-29	0941	0956	447	0-137	192	192
110.40	29°36.2'	116°21'	V-29	1226	1241	448	0-142	369	369
110.45	29°29.9'	116°41.3'	V-29	1506	1521	468	0-138	209	209
110.50	29°13'	117°02'	V-29	1806	1821	469	0-134	87	87
110.55	29°01.8'	117°27.5'	V-29	2055	2108	496	0-130	111	111
110.60	28°52'	117°42.5'	V-29	2354	0009	454	0-144	112	112
110.65	28°40.1'	118°02'	V-30	0211	0226	470	0-145	72	72
110.70	28°35.5'	118°18'	V-30	0446	0500	469	0-145	66	66
110.75	28°26'	118°36'	V-30	0702	0716	479	0-139	50	50
110.80	28°15.6'	118°51'	V-30	0951	1006	503	0-138	48	48
110.85	28°07'	119°11'	V-30	1230	1245	468	0-143	36	36
110.90	27°57.5'	119°33'	V-30	1529	1543	524	0-138	95	95
113.30	29°22'	115°15.8'	V-29	0221	0228	250	0-60	2,794	1,397
113.35	29°13.3'	115°37.7'	V-28	2313	2328	469	0-156	194	81
113.40	29°06'	115°58.5'	V-28	2036	2051	460	0-150	89	89
113.45	28°58.5'	116°17'	V-28	1756	1811	446	0-141	119	119
113.50	28°49'	116°36.8'	V-28	1516	1531	495	0-140	57	57
113.55	28°39'	116°55.2'	V-28	1246	1301	478	0-144	56	56
113.60	28°27'	117°15.3'	V-28	1001	1016	475	0-143	48	48
113.65	28°16.5'	117°35.5'	V-28	0654	0708	463	0-144	28	28
113.70	28°06'	117°56'	V-28	0408	0422	428	0-159	37	37
113.75	27°54.5'	118°16'	V-28	0101	0116	481	0-142	123	123
113.80	27°43'	118°37'	V-27	2206	2220	458	0-150	70	70
117.26	28°55.5'	114°40.9'	V-25	1048	1056	230	0-72	1,702	1,702
117.30	28°47.4'	114°56'	V-25	1337	1347	328	0-104	832	832
117.35	28°37.8'	115°15.9'	V-25	1630	1644	491	0-131	98	98
117.40	28°27.8'	115°35.5'	V-26	1931	1946	454	0-149	53	53
117.45	28°18'	115°55.8'	V-26	2221	2236	538	0-132	115	115
117.50	28°08'	116°16'	V-27	0101	0116	563	0-125	121	121
117.55	27°58'	116°36'	V-27	0401	0416	462	0-147	67	67
117.60	27°48'	116°56.5'	V-27	0641	0656	492	0-139	65	65
117.65	27°36.2'	117°19'	V-27	0930	0945	454	0-140	238	84
117.70	27°27.8'	117°37.4'	V-27	1150	1204	483	0-130	21	21
117.75	27°17.5'	117°56.5'	V-27	1426	1441	502	0-141	36	36
117.80	27°08.5'	118°14'	V-27	1641	1656	503	0-130	161	161
120.25	28°23'	114°14.6'	V-25	0529	0534	169	0-47	6,509	6,509
120.27	28°18.2'	114°24'	V-25	0358	0406	272	0-90	2,209	2,209
120.30	28°14'	114°33.5'	V-25	0212	0222	356	0-81	675	675
120.35	28°02.8'	114°54'	V-24	2218	2226	270	0-80	2,025	2,025
120.40	27°57'	115°14.2'	V-24	1952	1959	235	0-54	1,899	1,899
120.45	27°45.2'	115°34.8'	V-24	1701	1716	471	0-145	1,324	1,324
120.50	27°34.7'	115°53'	V-24	1411	1426	490	0-147	1,613	1,613
120.55	27°24'	116°12'	V-24	1116	1130	506	0-143	754	754
120.60		Occupied.	Sample lost.						
120.70	26°52.5	117°11'	V-24	0317	0332	452	0-145	310	310

Plankton Volumes, Cruise 5505, May 1955 (cont'd)

Sta.	Position N.lat.	Position W.long.	(1955) Date	Time (PST) Start	Time (PST) End	Vol. water strained C.M.	Depth of haul in meters	Vol. per 1000 C.M. strained Total cc.	Vol. per 1000 C.M. strained Sm.org. cc.
120.80	26°32.5'	117°49.5'	V-23	2206	2221	511	0-140	70	70
123.37			Occupied. Sample not quantitative.						
123.40	27°16.1'	114°51.5'	V-23	0032	0046	543	0-133	424	424
123.45	27°05.5'	115°11.5'	V-23	0307	0322	530	0-127	230	230
123.50	26°53.8'	115°31.5'	V-23	0558	0613	476	0-149	46	46
123.55	26°43.5'	115°49.7'	V-23	0836	0851	460	0-143	57	57
123.60	26°33'	116°08.8'	V-23	1136	1151	498	0-136	990	990
127.34	26°55.5'	114°07'	V-22	1422	1431	311	0-72	1,435	1,435
127.40	26°41.5'	114°27.5'	V-22	1112	1127	549	0-134	73	73
127.45	26°31'	114°47.8'	V-22	0816	0831	528	0-135	436	436
127.50	26°22'	115°07.5'	V-22	0521	0536	446	0-138	5,627	291
127.55	26°13'	115°26.5'	V-22	0221	0235	489	0-143	72	41
127.60	26°04'	115°46'	V-21	2331	2345	484	0-138	87	87
130.30	26°23.5'	113°28.4'	V-21	0313	0321	286	0-76	2,115	2,115
130.35	26°18.5'	113°48'	V-21	0522	0536	498	0-122	458	458
130.40	26°09.2'	114°06.6'	V-21	0801	0816	468	0-145	1,823	1,798
130.50	25°49'	114°46'	V-21	1311	1325	422	0-140	696	696
130.60	25°29'	115°23.5'	V-21	1805	1820	442	0-147	50	50
133.25	26°04.2'	112°49'	V-20	2113	2120	263	0-78	1,327	813
133.30	25°54.5'	113°07.2'	V-20	1831	1846	485	0-141	161	161
133.40			Occupied. Sample not quantitative.						
133.50	25°11.1'	114°25.9'	V-20	0746	0801	438	0-147	160	160
137.23	25°34.1	112°18.5'	V-19	1313	1320	263	0-67	1,482	1,482
137.30	25°20.2'	112°43.5'	V-19	1621	1636	502	0-140	115	115
137.40	24°59.1	113°22.8'	V-19	2131	2146	470	0-141	81	81
137.50	24°39.2'	114°03'	V-20	0248	0300	506	0-133	55	55

Plankton Volumes, Cruise 5506, June 1955

60.55	37°47.5'	123°15'	VI-25	1527	1538	408	0-104	417	319
60.60	37°36.5'	123°36'	VI-25	1836	1851	382	0-150	1,304	911
60.70	37°14.5'	124°24'	VI-26	0021	0036	397	0-130	1,154	736
60.80	36°53.5'	125°11'	VI-26	0636	0650	359	0-142	568	568
60.90	36°38'	125°46.1'	VI-26	1236	1251	441	0-144	159	159
63.52	37°18.5'	122°36.8'	VI-24	0403	0410	167	0-75	1,100	443
63.55	37°05.7'	122°48.3'	VI-24	0116	0131	454	0-143	1,197	1,197
63.65	36°52.7'	123°26.2'	VI-23	1936	1951	492	0-131	796	796
67.50	36°49'	122°05.3'	VI-23	0508	0515	212	0-70	1,224	1,036
67.55	36°38'	122°28.2'	VI-23	0806	0820	445	0-151	540	540
67.65	36°23.5'	123°05.3'	VI-23	1336	1351	485	0-138	192	192
70.52	36°08'	121°50.2'	VI-22	1626	1641	521	0-138	284	234
70.55	36°02.7'	122°02'	VI-22	1336	1351	494	0-134	793	793
70.60	35°50.1'	122°23'	VI-22	0946	1000	468	0-138	1,018	1,018
70.70	35°35.2'	123°01'	VI-22	0246	0301	455	0-143	250	224
70.80	35°13.5'	123°45.1'	VI-21	2036	2050	467	0-151	432	432

Plankton Volumes, Cruise 5506, June 1955 (cont'd)

Sta.	Position N.lat.	Position W.long.	(1955) Date	Time (PST) Start	Time (PST) End	Vol. water strained C.M.	Depth of haul in meters	Vol. per 1000 C.M. strained Total cc.	Vol. per 1000 C.M. strained Sm.org. cc.
70.90	34°50.5'	124°31.8'	VI-21	1211	1226	498	0-136	96	96
73.50	35°36.8'	121°17'	VI-20	0358	0407	288	0-92	1,237	1,036
73.60	35°18'	121°57'	VI-20	0921	0935	531	0-142	452	452
73.70	34°57.2'	122°41.1'	VI-20	1521	1536	485	0-145	239	198
73.80	34°38'	123°21.8'	VI-20	2046	2100	496	0-142	1,633	1,452
73.90	34°18'	124°03.8'	VI-21	0306	0321	440	0-151	257	257
77.50	35°04.6'	120°53.2'	VI-19	2228	2235	202	0-64	657	657
77.55	34°52.8'	121°12'	VI-19	1901	1910	455	0-145	222	222
77.65	34°32.2'	121°51.5'	VI-19	1241	1256	447	0-139	358	358
77.70	34°21.1'	122°12.1'	VI-19	0946	1000	447	0-156	170	170
77.80	34°02'	122°54.5'	VI-19	0411	0426	511	0-135	366	264
77.90	33°45'	123°37'	VI-18	2006	2020	506	0-134	225	225
80.51	34°26.5'	120°33'	VI-17	1107	1118	357	0-124	171	171
80.55	34°19'	120°48'	VI-17	1356	1410	395	0-144	2,075	2,075
80.60	34°08.5'	121°09'	VI-17	1736	1751	475	0-138	639	639
80.70	33°48.5'	121°53.5'	VI-17	2316	2330	506	0-149	510	292
80.80	33°29'	122°37'	VI-18	0536	0551	543	0-142	413	413
80.90	33°13'	123°13.5'	VI-18	1141	1155	473	0-151	592	592
83.40	34°13.5'	119°22'	VI-16	0509	0512	109	0-17	27	27
83.43	34°07.5'	119°34.2'	VI-16	0236	0251	472	0-145	207	207
83.51	33°51.5'	120°08.3'	VI-15	2011	2026	545	0-132	204	204
83.55	33°42.2'	120°21.3'	VI-15	1736	1751	460	0-140	217	217
83.60	33°32'	120°45'	VI-15	1336	1351	441	0-159	512	512
83.65	33°23.1'	121°08'	VI-15	1041	1056	528	0-133	371	299
83.70	33°13.2'	121°28'	VI-15	0551	0606	467	0-141	771	578
83.75	33°03.5'	121°47.5'	VI-15	0231	0246	432	0-149	648	648
83.80	32°54'	122°07.5'	VI-14	2041	2056	462	0-153	1,164	952
83.85	32°45'	122°27'	VI-14	1926	1940	456	0-142	982	982
83.90	32°32'	122°46.2'	VI-14	1401	1416	476	0-138	1,038	807
87.35	33°50'	118°38'	VI-11	0146	0200	468	0-137	209	209
87.40	33°40.2'	118°58.5'	VI-11	0656	0710	529	0-132	168	168
87.45	33°30.4'	119°19.3'	VI-11	0941	0956	482	0-125	1,120	1,120
87.50	33°20'	119°40'	VI-11	1253	1300	212	0-64	794	794
87.55	33°09.9'	120°00.5'	VI-11	1541	1556	427	0-132	365	365
87.60	33°00'	120°22'	VI-11	1921	1935	381	0-137	1,266	1,030
87.65	32°49.8'	120°42.2'	VI-13	1021	1036	435	0-140	191	191
87.70	32°39.2'	121°02.5'	VI-13	1356	1411	401	0-149	1,246	1,246
87.75	32°29.8'	121°23.5'	VI-13	1706	1721	341	0-148	806	739
87.80	32°19.8'	121°43.5'	VI-13	2115	2130	450	0-147	618	418
87.85	Occupied. Sample not quantitative.								
87.90	31°59'	122°22.5'	VI-14	0827	0841	485	0-140	128	128
90.28	33°28.5'	117°46.7'	VI-16	2118	2126	259	0-65	625	625
90.30	33°24.5'	117°54.9'	VI-16	2326	2340	445	0-133	1,035	180
90.37	33°11.8'	118°23.6'	VI-17	0341	0356	490	0-130	131	131
90.45	32°58.5'	118°54.0'	VI-17	1046	1060	308	0-127	1,557	1,557

Plankton Volumes, Cruise 5506, June 1955 (cont'd)

Position			Time (PST)			Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
Sta.	N.lat.	W.long.	(1955) Date	Start	End	C.M.	in meters	Total cc.	Sm.org. cc.
90.50	32°46'	119°17'	VI-17	1441	1456	451	0-131	275	275
90.55	32°34.5'	119°37'	VI-17	1806	1820	452	0-127	275	275
90.60	32°24'	119°57'	VI-17	2211	2226	416	0-138	312	312
90.65	32°14'	120°10.8'	VI-18	0220	0236	399	0-138	762	762
90.70	32°01.8'	120°36'	VI-18	0756	0811	466	0-128	464	464
90.75	31°55.7'	120°59'	VI-18	1106	1124	531	0-138	301	301
90.80			Occupied. Sample not quantitative.						
93.27	32°55.8'	117°18.2'	VI-20	0957	1007	343	0-78	90	90
93.30	32°49.7'	117°31.5'	VI-20	0806	0824	610	0-135	41	41
93.35	32°30.8'	117°59'	VI-20	0241	0255	430	0-133	81	81
93.40	32°23.8'	118°17'	VI-19	2255	2311	467	0-139	216	154
93.45	32°16.5'	118°35'	VI-19	1956	2010	471	0-136	136	123
93.50	32°10'	118°53.1'	VI-19	1616	1630	472	0-132	131	131
93.55	31°59'	119°09'	VI-19	1356	1410	512	0-129	274	274
93.60	31°50.8'	119°30'	VI-19	1020	1035	493	0-135	83	83
93.65			Occupied. Sample not quantitative.						
93.70	31°30'	120°12.8'	VI-19	0325	0341	507	0-130	341	341
93.75	31°19.2'	120°34'	VI-19	0010	0026	498	0-136	289	289
93.80	31°09.5'	120°54.5'	VI-18	2036	2051	475	0-145	431	147
97.30	32°15.5'	117°09'	VI-21	1649	1654	177	0-45	272	272
97.32	32°11'	117°17'	VI-21	1906	1921	496	0-136	87	87
97.35	32°07.5'	117°26'	VI-21	2221	2236	500	0-130	60	60
97.40	31°58'	117°45'	VI-22	0126	0141	482	0-134	1,411	124
97.45	31°46'	118°09.5'	VI-22	0611	0626	453	0-141	185	185
97.50	31°36.2'	118°29'	VI-22	0935	0950	569	0-117	265	116
97.55	31°25'	118°50'	VI-22	1425	1441	504	0-127	143	143
100.29	31°42.3'	116°43.5'	VI-23	1421	1434	462	0-118	290	290
100.30	31°40.5'	116°46.5'	VI-23	1241	1256	483	0-136	87	87
100.35	31°28.1'	117°05.2'	VI-23	0916	0931	465	0-137	67	67
100.40	31°21.5'	117°27'	VI-23	0611	0625	424	0-146	165	165
100.45	31°08.3'	117°53.5'	VI-23	0216	0231	455	0-134	283	283
100.50	30°57.7'	118°10'	VI-22	2306	2321	532	0-118	181	181
100.55	30°46.3'	118°26.5'	VI-22	1955	2010	522	0-126	90	90
103.30	31°05'	116°25'	VI-28	1433	1440	247	0-45	182	182
103.35	30°55'	116°42'	VI-28	1128	1143	474	0-110	167	167
103.40	30°47.8'	116°57'	VI-28	0956	1010	469	0-135	205	205
103.45	30°37'	117°19.5'	VI-28	0637	0652	470	0-139	339	339
103.50	30°27'	117°43.5'	VI-28	0416	0430	507	0-130	246	246
103.55	30°16'	118°05'	VI-28	0047	0101	521	0-133	163	163
103.60	30°05.5'	118°22.5'	VI-27	2229	2244	474	0-136	183	183
103.65	29°57.5'	118°46'	VI-27	1846	1900	609	0-90	722	722
103.70	29°46.5'	119°06.5'	VI-27	1623	1638	473	0-136	264	264
103.75	29°37.5'	119°25'	VI-27	1316	1330	504	0-131	218	218
103.80	29°33'	119°34'	VI-27	1206	1219	473	0-108	194	194
103.85	29°22'	119°57.5'	VI-27	0847	0902	487	0-140	201	201

Plankton Volumes, Cruise 5506, June 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
Sta.	N. lat.	W. long.	(1955) Date	Start	End	C.M.	in meters	Total cc.	Sm. org. cc.
103.90	29°09'	120°19'	VI-27	0628	0642	458	0-148	192	192
107.32	30°27'	116°11.3'	VI-25	1119	1133	424	0-132	125	125
107.35	30°20.8'	116°21.5'	VI-25	1346	1400	425	0-133	113	113
107.40	30°09.1'	116°44.5'	VI-25	1711	1726	556	0-103	388	119
107.45	29°59.5'	117°03.5'	VI-25	1912	1926	474	0-133	225	225
107.50	29°50'	117°24'	VI-25	2236	2250	463	0-148	203	203
107.55	29°42'	117°44'	VI-26	0108	0122	586	0-112	253	253
107.60	29°30'	118°05'	VI-26	0444	0458	506	0-134	263	263
107.65	29°22'	118°22.5'	VI-26	0636	0650	497	0-138	374.	374
107.70	29°11.5'	118°45'	VI-26	1007	1021	540	0-125	400	400
107.75	29°02.5'	119°02'	VI-26	1201	1216	528	0-137	114	114
107.80	28°51'	119°21.5'	VI-26	1524	1538	498	0-145	211	211
107.85	28°42.5'	119°43.5'	VI-26	1741	1756	464	0-146	67	67
107.90	28°33'	120°02.5'	VI-26	2241	2255	519	0-128	181	181
110.33	29°50.5'	115°52.4'	VI-25	0552	0605	582	0-75	115	115
110.35	29°44.2'	116°04.9'	VI-25	0404	0419	535	0-112	273	273
110.40	29°36.5'	116°17.1'	VI-25	0046	0100	460	0-142	664	664
110.45	29°25.3'	116°38.5'	VI-24	2042	2056	554	0-119	547	547
110.50	29°16.2'	116°59'	VI-24	1826	1840	496	0-130	787	787
110.55	29°06.5'	117°18.5'	VI-24	1501	1515	518	0-124	1,136	1,136
110.60	28°56'	117°38.5'	VI-24	1204	1218	465	0-147	1,176	1,176
110.65	28°46'	117°57.5'	VI-23	0837	0851	547	0-133	119	119
110.70	28°24.5'	118°17.5'	VI-23	0556	0610	578	0-145	211	211
110.75	28°26'	118°37'	VI-23	0210	0224	544	0-136	250	250
110.80	28°16'	118°57.5'	VI-22	2321	2336	469	0-142	192	192
110.85	28°04'	119°25.2'	VI-22	2031	2046	583	0-123	228	125
110.90	27°55'	119°35.5'	VI-22	1731	1746	506	0-146	105	105
113.30	29°23.1'	115°18.2'	VI-21	0316	0322	242	0-37	662	662
113.35	29°12'	115°39'	VI-21	0626	0640	563	0-127	115	115
113.40	29°02.8'	115°58.5'	VI-21	0916	0930	495	0-152	277	277
113.45	28°53.2'	116°19.5'	VI-21	1145	1201	540	0-130	345	345
113.50	28°43'	116°36'	VI-21	1456	1510	481	0-148	121	121
113.55	28°32'	116°57'	VI-21	1738	1752	544	0-130	276	276
113.60	28°21.5'	117°16.6'	VI-21	2041	2056	497	0-145	195	195
113.65	28°12'	117°35'	VI-21	2301	2316	504	0-131	381	381
113.70	27°58.5'	118°01'	VI-22	0120	0134	472	0-142	403	403
113.75	27°48.4'	118°22'	VI-22	0446	0500	500	0-143	72	72
113.80	27°42'	118°36.5'	VI-22	0921	0935	472	0-152	114	114
117.26	28°55.5'	114°40.1'	VI-20	2234	2241	303	0-48	330	330
117.30	28°48'	114°56.2'	VI-20	2023	2031	286	0-83	391	391
117.35	28°37.9'	115°15.9'	VI-20	1716	1730	593	0-106	307	307
117.40	28°27.5'	115°35'	VI-20	1436	1450	509	0-135	83	83
117.45	28°13.2'	115°53.2'	VI-20	1113	1128	475	0-138	105	105

Plankton Volumes, Cruise 5506, June 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
			(1955)					Total	Sm.org.
Sta.	N.lat.	W.long.	Date	Start	End	C.M.	in meters	cc.	cc.
117.50	28°02'	116°23.5'	VI-20	0708	0723	507	0-118	154	154
117.55	27°55.1'	116°37'	VI-20	0351	0406	466	0-140	107	107
117.60	27°48'	116°52'	VI-20	0136	0150	450	0-151	245	245
117.65	27°38'	117°13'	VI-19	2206	2221	498	0-138	358	358
117.70	27°27.5'	117°32'	VI-19	1946	2001	444	0-147	685	685
117.75	27°14.5'	117°56.1'	VI-19	1611	1626	521	0-124	422	422
117.80	27°01.5'	118°10.5'	VI-19	1327	1341	581	0-103	107	107
120.25	28°23'	114°14.3'	VI-17	1938	1944	186	0-39	516	516
120.27	28°19'	114°22.8'	VI-17	2108	2116	282	0-62	667	632
120.30	28°12'	114°34'	VI-17	2308	2316	322	0-68	417	417
120.35	28°02.8'	114°54.9'	VI-18	0150	0156	281	0-48	263	263
120.40	27°55.5'	115°16.8'	VI-18	0407	0415	265	0-52	234	234
120.45	27°42.7'	115°33.2'	VI-18	0717	0732	463	0-114	484	484
120.50	27°34.2'	115°48.8'	VI-18	1037	1050	459	0-137	52	52
120.55	27°23.1'	116°10.2'	VI-18	1317	1330	452	0-140	55	55
120.60	27°13'	116°29.9'	VI-18	1633	1648	445	0-144	1,057	1,057
120.70	26°52.8'	117°10.9'	VI-18	2137	2151	432	0-158	416	416
120.80	26°32.8'	117°48.5'	VI-19	0711	0725	473	0-127	491	491
123.37	27°24.1'	114°39.2'	VI-17	0708	0715	249	0-59	4,268	4,268
123.40	27°16.6'	114°51.8'	VI-17	0432	0446	536	0-114	850	850
123.45	27°08'	115°10'	VI-17	0004	0019	443	0-147	632	632
123.50	26°58.5'	115°32'	VI-16	2126	2140	459	0-137	867	867
123.55	26°48.8'	115°50.4'	VI-16	1741	1756	470	0-135	1,225	1,225
123.60	26°39.5'	116°08'	VI-16	1517	1532	493	0-140	146	146
127.34	26°55.5'	114°05.8'	VI-15	1238	1246	409	0-50	1,565	1,565
127.40	26°44.5'	114°29.5'	VI-15	1641	1656	507	0-143	483	483
127.45	26°37.9'	114°48.6'	VI-15	1906	1920	518	0-127	1,027	1,027
127.50	26°23.5'	115°08'	VI-15	2256	2310	482	0-130	796	796
127.55	26°13.2'	115°27.5'	VI-16	0126	0141	478	0-142	50	50
127.60	26°01.5'	115°50.5'	VI-16	0756	0811	539	0-125	15	15
130.30	26°28.7'	113°27.9'	VI-15	0712	0720	344	0-48	81	81
130.35	26°21.3'	113°46.5'	VI-15	0437	0450	380	0-72	208	208
130.40	26°11'	114°06'	VI-15	0216	0231	464	0-153	250	250
130.50	25°41'	114°46.9'	VI-14	1946	2000	464	0-136	659	616
130.60	25°29.1'	115°24.5'	VI-14	1437	1452	498	0-132	24	24
133.25	26°04.6'	112°47.8'	VI-13	1308	1314	276	0-42	1,449	1,449
133.30	25°54'	113°03.3'	VI-13	1606	1620	440	0-116	441	441
133.40	25°34.8'	113°45.5'	VI-13	2116	2131	426	0-141	216	216
133.50	25°15.4'	114°20.1'	VI-14	0516	0530	454	0-141	44	44
137.23	25°21.4'	112°18.6'	VI-13	0738	0745	333	0-30	1,655	1,655
137.30	25°09.6'	112°43.8'	VI-13	0406	0421	501	0-121	263	263
137.40	24°52.7'	113°23.9'	VI-12	2246	2300	493	0-141	176	176
137.50	24°37'	114°02.6'	VI-12	1631	1645	557	0-101	88	88

Plankton Volumes, Cruise 5507, July 1955

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
			(1955)					Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	cc.	cc.
63.52	37°16.7'	122°37'	VII-15	0342	0352	311	0-79	428	267
63.55	37°12.5'	122°49.8'	VII-15	0151	0206	508	0-126	949	732
63.65	36°55.2'	123°35.2'	VII-14	2141	2155	425	0-143	1,412	1,412
67.50	36°49.3'	122°04.7'	VII-14	0913	0920	315	0-48	1,822	806
67.55	36°39.2'	122°26'	VII-14	1136	1151	466	0-135	665	665
67.65	36°19.2'	123°09'	VII-14	1606	1620	436	0-141	1,102	1,102
70.52	36°10.3'	121°51.2'	VII-14	0416	0431	442	0-142	933	933
70.55	36°07'	122°05.3'	VII-14	0225	0241	465	0-135	2,375	2,375
70.60	35°56.5'	122°26.5'	VII-13	2336	2352	422	0-138	1,233	1,233
70.70	35°37.8'	123°03'	VII-13	1926	1940	518	0-120	807	807
70.80	35°17.3'	123°46.1'	VII-13	1441	1456	483	0-143	286	286
70.90	34°56'	124°29.2'	VII-13	0946	1001	545	0-121	218	218
73.50	35°37'	121°17.3'	VII-12	1128	1136	236	0-70	1,823	1,823
73.60	35°18'	121°58'	VII-12	1522	1536	530	0-127	987	987
73.70	34°59'	122°41'	VII-12	1951	2007	485	0-126	578	578
73.80	34°40.5'	123°21.5'	VII-13	0026	0041	463	0-145	1,210	1,210
73.90	34°21.3'	124°03'	VII-13	0456	0511	400	0-152	699	699
77.50	35°04.2'	120°52.6'	VII-12	0656	0710	504	0-131	1,453	421
77.55	34°53.4'	121°11.6'	VII-12	0411	0426	385	0-138	467	467
77.65	34°35'	121°51.5'	VII-11	2341	2355	315	0-135	1,208	1,208
77.70	34°25'	122°14'	VII-11	2141	2156	420	0-145	544	544
77.80	34°07.5'	122°58.6'	VII-11	1616	1632	498	0-136	1,213	1,213
77.90	33°50'	123°42'	VII-11	1126	1141	438	0-137	393	393
80.51	34°26'	120°33'	VII-10	1126	1141	508	0-125	232	106
80.55	34°19.5'	120°47.5'	VII-10	1341	1356	462	0-146	126	126
80.60	34°09'	121°09'	VII-10	1616	1631	376	0-138	802	802
80.70	33°50.5'	121°51'	VII-10	2056	2110	442	0-145	317	317
80.80	33°31.5'	122°32'	VII-11	0141	0154	454	0-135	161	161
80.90	33°12.5'	123°14'	VII-11	0626	0641	477	0-132	287	287
83.40	34°13.3'	119°22'	VII-10	0534	0537	80	0-12	112	112
83.43	34°07.6'	119°33.9'	VII-10	0340	0355	518	0-140	1,405	517
83.51	33°51.2'	120°07.8'	VII-9	2216	2232	541	0-146	80	80
83.55	33°44.5'	120°23.2'	VII-9	1946	2000	471	0-136	302	302
83.60	33°34.6'	120°44.5'	VII-9	1656	1713	552	0-127	594	594
83.65	33°23'	121°01.7'	VII-9	1411	1426	292	0-148	1,919	1,919
83.70	33°09'	121°29'	VII-9	1106	1120	475	0-143	412	412
87.35	33°50'	118°38'	VII-8	0021	0036	514	0-136	123	123
87.40	33°42.5'	119°00.8'	VII-8	0301	0315	539	0-123	219	219
87.45	33°30.2'	119°20'	VII-8	0611	0626	448	0-132	1,249	1,249
87.50	33°20'	119°40'	VII-8	0853	0900	215	0-55	451	451
87.55	33°10.5'	119°00.1'	VII-8	1126	1140	502	0-135	354	354
87.60	33°01'	120°21.5'	VII-8	1406	1421	455	0-147	845	845
87.65	32°50.5'	120°41'	VII-8	1646	1701	455	0-125	554	554
87.70	32°40.5'	121°01'	VII-8	1939	1956	528	0-146	379	379
90.28	33°28.5'	117°45.7'	VII-7	2351	0006	485	0-134	113	113

Plankton Volumes, Cruise 5507, July 1955 (cont'd)

Sta.	Position N.lat.	Position W.long.	(1955) Date	Time (PST) Start	Time (PST) End	Vol. water strained C.M.	Depth of haul in meters	Vol.per 1000 C.M.strained Total cc.	Vol.per 1000 C.M.strained Sm.org. cc.
90.30	33°24.7'	117°55'	VII-8	0146	0200	569	0-108	104	104
90.37	33°10.2'	118°23'	VII-8	0545	0601	436	0-140	161	161
90.45	32°57.4'	118°53.9'	VII-8	1051	1105	440	0-142	273	273
90.50	32°46.5'	119°19.5'	VII-8	1441	1455	544	0-115	254	254
90.55	32°34.5'	119°37'	VII-8	1721	1736	488	0-131	442	442
90.60	32°21.5'	119°56.8'	VII-8	2156	2210	471	0-132	227	227
90.65	32°12.3'	120°17'	VII-9	0141	0155	442	0-133	163	163
90.70	32°02.1'	120°36'	VII-9	0505	0527	632	0-158	206	206
90.75	31°54'	120°57'	VII-9	0826	0841	501	0-130	283	283
90.80	31°50.3'	121°07.8'	VII-9	1131	1155	662	0-139	200	200
90.85	31°39.2'	121°27'	VII-9	1536	1550	405	0-129	222	222
90.90	31°27.6'	121°53.5'	VII-9	1916	1930	417	0-147	624	624
93.27	32°55.6'	117°18.8'	VII-11	1757	1808	408	0-96	5,274	368
93.30	32°50.6'	117°30'	VII-11	1601	1616	486	0-142	243	243
93.35	32°41.5'	117°49.6'	VII-11	1317	1332	557	0-111	149	149
93.40	32°31.7'	118°08.5'	VII-11	1026	1041	452	0-141	215	215
93.45	32°22'	118°30'	VII-11	0716	0731	522	0-127	144	144
93.50	32°12'	118°51.5'	VII-11	0406	0420	463	0-131	397	367
93.55	32°02.2'	119°12.3'	VII-11	0042	0057	493	0-126	367	367
93.60	31°51.9'	119°33.4'	VII-10	2136	2150	500	0-139	568	408
93.65	31°42.6'	119°54'	VII-10	1756	1811	529	0-112	378	378
93.70	31°32.3'	120°16'	VII-10	1436	1450	494	0-131	239	239
93.75	31°21.1'	120°38.1'	VII-10	1046	1100	516	0-143	258	258
93.80	31°10.2'	120°58'	VII-10	0735	0750	446	0-119	273	273
93.85	31°00.3'	121°18.2'	VII-10	0354	0409	441	0-146	322	284
93.90	30°50'	121°35'	VII-10	0031	0046	484	0-128	225	225
97.30	32°15.2'	117°09.3'	VII-12	1658	1706	318	0-55	129	129
97.32	32°11.7'	117°16.3'	VII-12	1841	1856	489	0-135	96	96
97.35	32°06.1'	117°31.8'	VII-12	2116	2130	456	0-142	186	186
97.40	31°57.7'	117°53.8'	VII-13	0031	0046	487	0-129	351	351
97.45	31°49'	118°16'	VII-13	0426	0441	452	0-136	223	223
97.50	31°40'	118°37.8'	VII-13	0736	0750	426	0-141	1,210	240
97.55	31°30.1'	119°00'	VII-13	1111	1125	436	0-140	312	312
97.60	31°21.5'	119°18.3'	VII-13	1401	1415	460	0-131	209	209
97.65	31°10'	119°39.4'	VII-13	1756	1811	447	0-136	1,813	170
97.70	30°58.7'	120°00'	VII-13	2111	2125	434	0-149	281	281
97.75	30°46.3'	120°23.2'	VII-14	0051	0105	464	0-126	457	457
97.80	30°35.7'	120°42.9'	VII-14	0421	0436	458	0-139	188	188
97.85	30°24.6'	121°03'	VII-14	0836	0851	494	0-141	531	308
97.90	30°19.6'	121°12.7'	VII-14	0936	0951	450	0-138	1,499	600
100.29	31°42'	116°43'	VII-16	0901	0916	431	0-137	1,300	1,300
100.30	31°40.3'	116°45.7'	VII-16	0756	0810	460	0-136	543	543
100.35	31°28'	116°56'	VII-16	0506	0520	478	0-135	213	213
100.40	31°17.3'	117°19.2'	VII-16	0051	0106	531	0-124	2,646	104
100.45	31°08.2'	117°41.1'	VII-15	2136	2150	431	0-137	220	220

Plankton Volumes, Cruise 5507, July 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
Sta.	N.lat.	W.long.	(1955) Date	Start	End	C.M.	in meters	Total cc.	Sm.org. cc.
100.50	30°58.5'	118°03'	VII-15	1806	1820	494	0-122	263	263
100.55	30°49.3'	118°24.5'	VII-15	1441	1455	481	0-130	541	385
100.60	30°37.7'	118°45.1'	VII-15	1126	1141	433	0-147	4,299	97
100.65	30°30.4'	119°06'	VII-15	0741	0755	443	0-132	402	402
100.70	30°21.2'	119°27.4'	VII-15	0426	0441	462	0-133	419	182
100.75	30°12'	119°48.2'	VII-15	0046	0101	478	0-127	203	203
100.80	30°02.8'	120°09'	VII-14	2121	2136	494	0-144	227	227
100.85	29°53'	120°30'	VII-14	1753	1807	440	0-135	395	395
100.90	29°44'	120°50.4'	VII-14	1456	1510	443	0-134	492	492
103.30	31°05.7'	116°25.8'	VII-16	1423	1431	274	0-63	562	562
103.35	30°57'	116°44.9'	VII-16	1706	1720	469	0-134	160	160
103.40	30°47.8'	117°04.1'	VII-16	2014	2030	499	0-133	559	228
103.45	30°39'	117°23.9'	VII-16	2336	2350	430	0-143	393	325
103.50	30°30.2'	117°43.2'	VII-17	0256	0310	430	0-138	431	431
103.55	30°21.5'	118°02.8'	VII-17	0621	0635	451	0-140	488	488
103.60	30°12.6'	118°22.4'	VII-17	0936	0951	488	0-137	420	420
103.65	30°04'	118°41'	VII-17	1304	1319	502	0-127	331	331
103.70	29°42.5'	118°42'	VII-20	0836	0851	470	0-139	155	155
103.75	29°36.3'	119°07.5'	VII-20	0416	0430	465	0-136	221	221
103.80	29°29'	119°32.6'	VII-20	0106	0120	464	0-131	334	334
103.85	29°21'	119°57.2'	VII-19	2126	2140	512	0-124	199	199
103.90	29°11'	120°21'	VII-19	1726	1741	436	0-147	62	62
107.32	30°26'	116°11'	VII-22	0616	0630	469	0-131	153	153
107.35	30°20'	116°23'	VII-22	0751	0806	478	0-134	410	410
107.40	30°10.5'	116°43.5'	VII-22	1041	1056	508	0-132	189	189
107.45	30°00'	117°03'	VII-22	1346	1401	389	0-131	252	252
107.50	29°50.5'	117°23.5'	VII-22	1646	1700	464	0-140	142	142
107.55	29°40'	117°44'	VII-22	1926	1941	441	0-143	181	181
107.60	29°31'	118°03'	VII-22	2216	2230	439	0-140	446	446
107.65	29°20.3'	118°22.5'	VII-18	2026	2041	458	0-143	586	586
107.70	29°12.7'	118°43.7'	VII-18	2336	2350	456	0-136	406	406
107.75	29°04.8'	119°02.6'	VII-19	0301	0316	477	0-131	277	277
107.80	28°57'	119°22.2'	VII-19	0616	0630	434	0-143	171	171
107.85	28°49.9'	119°41.6'	VII-19	0926	0940	465	0-132	123	123
107.90	28°41.8'	120°02'	VII-19	1156	1211	481	0-124	170	170
110.33	29°50.5'	115°52.2'	VII-22	0038	0045	268	0-78	187	187
110.35	29°46.5'	116°00'	VII-21	2216	2230	503	0-132	286	286
110.40	29°36.5'	116°19.5'	VII-21	2026	2040	485	0-140	392	392
110.45	29°26'	116°39'	VII-21	1731	1745	442	0-141	244	244
110.50	29°16.5'	116°59'	VII-21	1446	1500	393	0-147	267	267
110.55	29°06'	117°18'	VII-21	1126	1140	498	0-138	1,363	78
110.60	28°56.5'	117°39'	VII-21	0846	0900	514	0-137	130	130
110.65	28°46'	117°59'	VII-21	0546	0601	543	0-138	201	201
110.70	28°36.5'	118°18'	VII-21	0256	0310	522	0-137	211	211
110.75	28°26'	118°38'	VII-20	2306	2320	500	0-139	176	176
110.80	28°16.5'	118°56.5'	VII-20	2016	2030	526	0-137	228	228

Plankton Volumes, Cruise 5507, July 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
			(1955)					Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	cc.	cc.
110.85	28°06'	119°17'	VII-20	1726	1740	491	0-140	114	114
110.90	27°56'	119°36'	VII-20	1441	1455	487	0-138	329	329
113.30	29°22.5'	115°17.5'	VII-19	0319	0324	169	0-45	1,052	1,052
113.35	29°12'	115°39'	VII-19	0556	0611	428	0-138	332	332
113.40	29°02'	115°58.5'	VII-19	0901	0915	473	0-133	512	512
113.45	28°52'	116°18'	VII-19	1141	1155	502	0-144	233	233
113.50	28°42'	116°37.5'	VII-19	1451	1505	469	0-154	284	284
113.55	28°32'	116°57'	VII-19	1721	1735	530	0-136	68	68
113.60	28°22'	117°16.5'	VII-19	2026	2040	527	0-136	216	216
113.65	28°12'	117°36'	VII-19	2316	2330	508	0-137	413	413
113.70	28°02'	117°55.5'	VII-20	0226	0240	484	0-145	661	661
113.75	27°52'	118°17'	VII-20	0506	0520	508	0-135	384	384
113.80	27°41'	118°35.5'	VII-20	0816	0830	515	0-137	62	62
117.26	28°56'	114°41'	VII-18	2156	2206	264	0-58	817	817
117.30	28°48'	114°56.5'	VII-18	1943	1953	301	0-99	785	120
117.35	28°38'	115°16'	VII-18	1631	1645	492	0-137	264	264
117.40	28°28'	115°35.5'	VII-18	1321	1335	536	0-131	166	166
117.45	28°18'	115°55'	VII-18	1016	1030	512	0-134	74	74
117.50	28°08'	116°15'	VII-18	0556	0610	536	0-136	129	129
117.55	27°58'	116°34'	VII-18	0326	0340	553	0-137	139	139
117.60	27°47.5'	116°54'	VII-18	0006	0020	501	0-140	710	710
117.65	27°37'	117°13.5'	VII-17	2116	2130	508	0-138	195	195
117.70	27°28'	117°33'	VII-17	1806	1820	514	0-142	187	187
117.75	27°17'	117°53'	VII-17	1521	1535	546	0-133	44	44
117.80	27°08'	118°11'	VII-17	1236	1250	475	0-143	105	105
120.25	28°23'	114°14.5'	VII-15	2309	2313	183	0-37	405	405
120.30	28°13'	114°34'	VII-16	0228	0236	288	0-68	444	444
120.35	28°03'	114°54'	VII-16	0503	0510	260	0-75	407	407
120.40	27°56.5'	115°14'	VII-16	0759	0803	156	0-34	193	193
120.45	27°43'	115°33'	VII-16	1026	1041	459	0-138	327	327
120.50	27°33'	115°53'	VII-16	1326	1341	471	0-141	132	132
120.55	27°24'	116°12'	VII-16	1616	1631	499	0-141	112	112
120.60	27°13'	116°32'	VII-16	1926	1940	505	0-138	376	317
120.70	26°52'	117°10'	VII-17	0041	0055	528	0-140	485	485
120.80	26°32'	117°48'	VII-17	0636	0650	459	0-142	98	98
123.37	27°24'	114°39.7'	VII-13	1228	1235	177	0-62	701	701
123.40	27°18'	114°51.5'	VII-13	1011	1026	455	0-144	409	409
123.45	27°08'	115°11'	VII-13	0716	0730	474	0-140	158	158
123.50	26°58'	115°31'	VII-13	0406	0420	475	0-141	156	156
123.55	26°48'	115°50'	VII-13	0046	0101	534	0-137	127	127
123.60	26°38.5'	116°09'	VII-12	2156	2210	518	0-143	166	166
127.34	26°55.3'	114°06'	VII-12	0143	0150	111	0-68	703	703
127.40	26°44'	114°30'	VII-12	0536	0550	531	0-144	85	85
127.45	26°33'	114°49'	VII-12	0746	0801	516	0-142	302	302
127.50	26°23.5'	115°08'	VII-12	1036	1040	509	0-143	173	173

Plankton Volumes, Cruise 5507, July 1955 (cont'd)

Position			(1955)	Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
								Total	Sm.org.
Sta.	N.lat.	W.long.	Date	Start	End	C.M.	in meters	cc.	cc.
127.55	26°13'	115°27'	VII-12	1336	1350	556	0-135	92	92
127.60	26°03'	115°47'	VII-12	1636	1650	514	0-147	181	181
130.30	26°29'	113°29'	VII-11	1828	1835	275	0-71	425	425
130.35	26°20'	113°46'	VII-11	1556	1611	374	0-142	294	294
130.40	26°05'	114°07'	VII-11	1216	1231	339	0-145	115	115
130.50	25°49'	114°46'	VII-11	0706	0721	514	0-141	19	19
130.60	25°29'	115°24'	VII-11	0126	0140	533	0-140	26	26
133.25	26°04.5'	112°48'	VII-10	0338	0347	285	0-73	631	631
133.30	25°54.5'	113°07.5'	VII-10	0616	0630	471	0-140	117	106
133.40	25°35'	113°45'	VII-10	1131	1145	532	0-136	139	139
133.50	25°14'	114°24'	VII-10	1736	1750	511	0-140	23	23
137.23	25°34'	112°19'	VII-9	2208	2215	296	0-68	2,451	1,876
137.30	25°20.5'	112°45'	VII-9	1811	1825	533	0-141	180	180
137.40	25°00'	113°23.5'	VII-9	1146	1201	511	0-151	45	45
137.50	24°37'	114°09'	VII-9	0546	0600	513	0-140	33	33

Plankton Volumes, Cruise 5510, October 1955

60.55	37°47.5'	123°15'	X-17	0647	0658	372	0-108	326	326
60.60	37°37'	123°37'	X-17	1021	1036	432	0-138	382	382
60.70	37°17'	124°21'	X-17	1746	1801	475	0-133	501	501
60.80	36°57'	125°04'	X-18	0056	0110	474	0-138	456	456
60.90	36°39'	125°49'	X-18	0812	0825	470	0-143	74	74
63.52	37°19'	122°36'	X-16	2358	0006	287	0-63	160	160
63.55	37°14'	122°49.5'	X-16	2116	2131	496	0-134	292	292
67.50	36°49'	122°04.6'	X-16	1122	1131	312	0-78	417	417
67.55	36°39'	122°26'	X-16	1446	1501	514	0-133	436	436
70.52	36°08.5'	121°49.8'	X-20	0746	0800	469	0-138	286	286
70.55	35°55'	121°59'	X-20	0456	0511	477	0-134	480	480
70.60	35°45'	122°26'	X-20	0001	0015	411	0-134	553	553
70.70	35°33'	123°04'	X-19	1716	1730	401	0-133	526	526
70.80	35°13'	123°48'	X-19	1136	1151	467	0-142	261	261
70.90	34°53'	124°30'	X-19	0231	0246	478	0-146	138	138
73.50	35°37'	121°16.6'	X-20	1458	1505	249	0-72	128	128
73.60	35°18'	121°58'	X-20	2101	2116	494	0-142	794	794
77.50	35°04.4'	120°52'	X-21	0757	0808	377	0-106	875	340
77.55	34°54'	121°13'	X-21	0406	0421	474	0-139	386	386
80.51	34°26.5'	120°32.5'	X-21	1428	1406	279	0-70	50	50
80.55	34°19'	120°48'	X-21	1716	1731	504	0-131	95	95
80.60	34°09'	121°09'	X-21	2205	2221	498	0-142	157	157
80.70	33°53'	121°45'	X-22	0536	0551	604	0-140	73	73
80.80	33°28'	122°31'	X-22	1316	1341	453	0-156	188	55
80.90	33°09'	123°12'	X-22	2046	2101	503	0-145	83	83
83.40	34°14'	119°22'	X-24	0804	0807	155	0-19	39	39
83.43	34°08'	119°34'	X-24	0516	0531	515	0-142	43	43

Plankton Volumes, Cruise 5510, October 1955 (cont'd)

Position			(1955)	Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
								Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	cc.	cc.
83.51	33°52'	120°08.5'	X-23	2246	2300	495	0-139	75	75
83.60	33°33'	120°45'	X-23	1631	1646	516	0-143	337	109
87.35	33°50'	118°37.5'	X-24	1441	1456	553	0-131	452	31
87.40	33°40'	118°58.5'	X-24	1826	1840	495	0-141	275	32
87.45	33°30'	119°19'	X-24	2211	2226	522	0-136	654	107
87.50	33°20'	119°39.5'	X-25	0208	0214	246	0-51	114	114
87.60	33°00'	120°21.5'	X-25	0841	0856	542	0-135	358	77
90.28	33°28.5'	117°46.7'	X-27	2356	0010	513	0-135	368	37
90.30	33°24.5'	117°55'	X-27	2131	2146	543	0-135	449	99
90.37	33°11'	118°23'	X-27	1656	1710	526	0-132	42	42
90.45	32°54.5'	118°56'	X-27	1111	1125	514	0-139	404	51
90.55	32°35'	119°37'	X-27	0416	0430	486	0-137	436	86
90.60	32°25'	119°57.5'	X-27	0001	0016	486	0-140	276	103
90.70	32°06'	120°30'	X-26	1656	1710	482	0-146	100	100
90.80	31°41'	121°22'	X-26	1056	1111	495	0-148	860	63
90.90	31°25'	121°57'	X-26	0236	0251	538	0-136	440	87
93.27	32°56'	117°19'	X-28	1042	1052	363	0-90	52	52
93.30	32°50'	117°31.5'	X-28	1221	1235	495	0-144	745	24
93.40	32°30'	118°12.5'	X-28	1921	1936	507	0-138	1,617	1,266
93.50	32°10'	118°53'	X-29	0116	0130	481	0-139	474	54
93.60	31°50'	119°32'	X-29	0716	0730	505	0-140	81	32
97.30	32°15.4'	117°08.8'	X-30	0818	0824	226	0-56	190	190
97.32	32°11.5'	117°17'	X-30	0626	0640	522	0-139	38	38
97.40	31°56'	117°50'	X-30	0116	0130	480	0-148	304	117
97.50	31°32'	118°26'	X-29	1931	1941	520	0-138	585	42
97.60	31°15.5'	119°09'	X-29	1341	1355	479	0-144	90	50
100.29	31°42.5'	116°43'	X-27	1553	1600	276	0-63	441	441
100.30	31°39'	116°46.5'	X-27	1336	1351	451	0-145	35	35
100.40	31°22'	117°25'	X-27	0918	0932	526	0-134	1,477	38
100.50	31°05.5'	118°07'	X-27	0420	0435	450	0-134	312	67
100.60	30°43'	118°49'	X-26	2226	2241	454	0-138	535	53
100.70	30°22'	119°28'	X-26	1631	1645	568	0-132	144	41
100.80	30°02'	120°05.5'	X-26	1143	1158	560	0-121	307	157
100.90			Occupied. Sample spoiled						
103.30	31°05'	116°25'	X-27	1932	1940	252	0-51	493	493
103.35	30°55'	116°45'	X-27	2213	2228	453	0-129	99	99
103.40	30°45'	117°05.5'	X-28	0111	0126	420	0-139	109	109
107.32	30°26'	116°11'	X-28	1101	1116	486	0-125	53	53
107.35	30°21'	116°23.5'	X-28	0848	0902	566	0-110	325	42
107.40	30°11'	116°44'	X-28	0556	0611	399	0-149	108	108
110.33	29°50.5'	115°52.5'	X-24	1057	1108	420	0-81	74	74
110.35	29°46.5'	116°00'	X-24	1243	1258	467	0-129	60	60
110.40	29°36.5'	116°19.5'	X-24	1556	1611	386	0-146	34	34
110.50	29°16'	116°59'	X-24	2106	2121	526	0-128	44	44
110.60	28°55.5'	117°38'	X-25	0226	0241	455	0-139	1,513	88

Plankton Volumes, Cruise 5510, October 1955 (cont'd)

Position			(1955)	Time (PST)		Vol. water	Depth of	Vol. per 1000 C.M. strained	
						strained	haul	Total	Sm. org.
Sta.	N. lat.	W. long.	Date	Start	End	C.M.	in meters	cc.	cc.
110.70	28°34'	118°18.5'	X-25	0717	0731	527	0-125	506	148
110.80	28°16'	118°57.5'	X-25	1221	1236	462	0-135	154	28
110.90	27°56'	119°36'	X-25	1726	1741	481	0-130	40	40
113.30	29°23'	115°18'	X-24	0619	0623	87	0-42	1,544	1,544
113.35	29°10.5'	115°41.5'	X-24	0306	0320	349	0-129	286	77
113.40	29°02'	115°58.5'	X-23	2326	2341	395	0-123	210	83
117.26	28°56'	114°41'	X-22	2158	2205	329	0-47	431	431
117.30	28°48'	114°56.5'	X-23	0013	0021	262	0-63	370	370
117.35	28°38'	115°16'	X-23	0326	0340	404	0-136	314	161
117.40	28°28'	115°36'	X-23	0651	0706	378	0-124	214	137
120.25	28°22.5'	114°14'	X-22	1708	1713	140	0-40	114	114
120.27	28°18.5'	114°22.5'	X-22	1538	1546	252	0-60	135	39
120.30	28°13'	114°34'	X-22	0838	0845	285	0-58	109	109
120.35	28°03'	114°54'	X-22	0556	0604	327	0-68	61	61
120.45	27°43'	115°33'	X-22	0106	0121	519	0-122	405	93
120.50	27°33'	115°52.5'	X-21	2046	2100	386	0-134	179	179
120.60	27°12.5'	116°31'	X-21	1516	1531	485	0-132	74	74
120.70	26°52.5'	117°10'	X-21	1006	1021	564	0-110	122	122
120.80	26°37'	117°50'	X-21	0446	0501	527	0-133	121	121
120.90	26°15'	118°28'	X-20	2336	2351	481	0-128	222	64
123.37	27°27'	114°40'	X-19	2228	2236	220	0-66	168	168
123.40	27°18'	114°51.5'	X-20	0113	0128	507	0-113	225	225
123.50	26°57'	115°35'	X-20	0613	0628	470	0-139	192	192
123.60	26°39'	116°08.5'	X-20	1031	1045	479	0-121	223	223
127.34	26°55'	114°06'	X-19	0108	0116	293	0-64	256	256
127.40	26°41.5'	114°31.5'	X-18	2145	2200	450	0-128	493	493
127.50	26°24'	115°07'	X-18	1640	1655	473	0-131	207	207
127.60	26°08'	115°37'	X-18	1211	1226	454	0-151	157	157
130.30	26°29.5'	113°28'	X-17	1259	1307	277	0-63	119	119
130.35	26°19'	113°48'	X-17	1511	1526	316	0-134	92	92
130.40	26°08'	114°06'	X-17	1853	1907	444	0-135	189	54
130.50	25°46'	114°43'	X-18	0038	0053	488	0-117	88	41
130.60	25°25'	115°18'	X-18	0611	0625	529	0-130	17	17
133.25	26°04.5'	112°48'	X-17	0646	0653	221	0-70	181	181
133.30	25°53'	113°07'	X-17	0328	0343	460	0-120	287	228
137.23	25°33.5'	112°20'	X-16	1421	1429	269	0-66	115	115
137.30	25°19'	112°48.5'	X-16	1942	1959	413	0-122	133	133

Plankton Volumes, Cruise 5512, December 1955

80.51	34°26'	120°33'	XI-30	0957	1008	395	0-96	28	28
80.55	34°19'	120°48'	XI-30	1316	1331	498	0-142	82	82
80.60	34°09'	121°09'	XI-30	1651	1706	553	0-142	1,014	127
80.70	33°48'	121°50.5'	XI-30	2341	2356	535	0-140	183	183
80.80	33°24'	122°32'	XII-1	0616	0631	545	0-135	172	172

Plankton Volumes, Cruise 5512, December 1955 (cont'd)

Position				Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
Sta.	N.lat.	W.long.	(1955) Date	Start	End	C.M.	in meters	Total cc.	Sm.org. cc.
80.90	32°59.5'	123°13'	XII-1	1146	1201	474	0-135	65	65
83.40	34°13.5'	119°22'	XII-3	0719	0722	134	0-15	75	75
83.43	34°07'	119°34'	XII-3	0546	0600	500	0-136	298	78
83.51	33°51.5'	120°08'	XII-2	0712	0724	418	0-141	698	124
83.60	33°33.5'	120°45'	XII-2	0156	0210	488	0-141	189	189
87.35	33°50'	118°38'	XII-3	2141	2156	592	0-140	269	150
87.40	33°40'	118°59'	XII-4	0056	0111	606	0-136	669	132
87.50	33°20'	119°40'	XII-4	0528	0534	218	0-68	1,603	183
87.60	33°00'	120°21.5'	XII-4	1226	1241	472	0-145	619	301
90.28	33°28.5'	117°46'	XII-6	0336	0351	528	0-129	598	144
90.30	33°24'	117°54.5'	XII-6	0156	0211	540	0-130	161	161
90.37	33°10.5'	118°24'	XII-5	2206	2221	537	0-138	734	138
90.45	32°54.5'	118°56'	XII-5	1811	1826	461	0-140	663	171
90.55	32°36'	119°36'	XII-5	1336	1351	490	0-139	106	106
90.60	32°26'	119°56.5'	XII-5	1006	1020	486	0-131	288	288
90.70	32°06'	120°37'	XII-5	0456	0511	502	0-136	498	259
90.80	31°44.5'	121°19'	XII-4	2311	2326	482	0-140	301	155
93.27	32°55.5'	117°18.5'	XII-6	0828	0836	298	0-76	154	154
93.30	32°50'	117°31'	XII-6	1656	1710	544	0-138	152	152
93.40	32°30'	118°12'	XII-6	2206	2221	548	0-125	730	256
93.50	32°10'	118°53'	XII-7	0306	0321	480	0-143	179	179
97.30	32°14'	117°07'	XII-7	1909	1914	181	0-42	110	110
97.32	32°11'	117°16.5'	XII-7	1736	1750	462	0-142	158	158
97.40	31°55'	117°49'	XII-7	1240	1300	486	0-140	152	152
97.50	31°33.5'	118°29'	XII-7	0756	0810	443	0-141	153	153
100.29	31°42'	116°43.5'	XII-7	2343	2351	274	0-77	627	627
100.30	31°40.5'	116°46.5'	XII-8	0126	0140	510	0-139	141	141
100.40	31°21'	117°27'	XII-8	0705	0721	476	0-145	141	141
100.50	31°01'	118°07'	XII-8	1236	1250	553	0-126	322	87
100.60	30°38'	118°50'	XII-8	1826	1840	454	0-111	79	79
100.70	30°19'	119°29'	XII-9	0006	0020	479	0-140	497	497
100.80	29°58'	120°09.5'	XII-9	0516	0530	469	0-140	243	243
103.30	31°04'	116°25'	XII-10	0928	0934	249	0-43	121	121
103.35	30°56'	116°44'	XII-10	0706	0720	460	0-138	144	144
103.40	30°49'	116°58'	XII-10	0426	0441	464	0-140	306	306
103.50	30°28'	117°39'	XII-9	2126	2141	453	0-144	210	210
103.60	30°07'	118°21'	XII-9	1526	1540	490	0-136	636	636
107.32	30°24.5'	116°10.5'	XII-10	1826	1841	502	0-136	306	191
107.35	30°20'	116.23'	XII-10	2026	2041	451	0-140	488	488
107.40	30°10'	116°43'	XII-10	2356	0010	505	0-131	297	297
107.50	29°49'	117°23.5'	XII-11	0506	0521	503	0-137	586	586
107.60	29°28.5'	118°01'	XII-11	1046	1101	490	0-140	310	310
110.33	29°50.5'	115°52'	XII-13	0038	0046	328	0-76	278	278
110.35	29°45'	115°59.5'	XII-12	2236	2250	514	0-132	584	584
110.40	29°33.5'	116°20'	XII-12	1811	1826	401	0-148	227	227

Plankton Volumes, Cruise 5512, December 1955 (cont'd)

Position			(1955)	Time (PST)		Vol. water strained	Depth of haul	Vol. per 1000 C.M. strained	
Sta.	N.lat.	W.long.	Date	Start	End	C.M.	in meters	Total cc.	Sm.org. cc.
110.50	29°16'	116°59'	XII-12	1250	1310	478	0-140	429	429
110.60	28°56.5'	117°43.5'	XII-12	0706	0721	535	0-126	787	787
110.70	28°38.5'	118°19'	XII-12	0136	0150	507	0-133	475	475
110.80	28°19.5'	118°54'	XII-11	1956	2010	473	0-142	382	382
113.30	29°22.5'	115°18'	XII-13	0543	0551	299	0-73	458	458
113.35	29°11.5'	115°40'	XII-13	0841	0856	580	0-123	140	140
113.40	29°02'	115°58.5'	XII-13	1146	1200	505	0-134	194	194
113.50	28°42'	116°37'	XII-13	1646	1701	534	0-131	54	54
113.60	28°22'	117°16'	XII-13	2136	2151	511	0-135	204	204
113.70	28°02'	117°55'	XII-14	0246	0301	482	0-138	112	112
117.26	28°56'	114°41'	XII-14	1043	1050	209	0-61	235	235
117.30	28°48'	114°56.5'	XII-14	1333	1341	249	0-73	349	349
117.35	28°38'	115°16'	XII-14	1621	1636	432	0-138	428	174
117.40	28°28'	115°35.5'	XII-14	2341	2355	484	0-145	170	170
117.50	28°11'	116°17'	XII-14	1746	1801	516	0-136	143	143
117.60	27°49'	116°53'	XII-14	1246	1300	510	0-136	53	53
117.70	27°28'	117°32.5'	XII-14	0726	0740	483	0-139	130	130
120.25	28°23'	114°14.5'	XII-14	0539	0544	188	0-45	149	149
120.30	28°13'	114°34'	XII-14	0218	0227	299	0-81	395	395
120.35	28°03'	114°54'	XII-13	2258	2305	240	0-61	584	584
120.40	27°56.5'	115°14'	XII-13	2014	2017	94	0-15	445	445
120.45	27°44'	115°30'	XII-13	1706	1721	480	0-139	204	204
120.50	27°33'	115°52.5'	XII-13	1351	1406	517	0-139	46	46
120.55	27°23'	116°12'	XII-13	1001	1016	508	0-138	61	61
120.60	27°13'	116°31.5'	XII-13	0601	0616	507	0-138	47	47
120.70	26°52.5'	117°10'	XII-12	2326	2340	542	0-136	148	148
123.37	27°24'	114°39.7'	XII-12	0058	0105	231	0-60	221	221
123.40	27°18'	114°51.5'	XII-12	0256	0311	398	0-138	161	161
123.50	26°58'	115°32'	XII-12	0841	0856	466	0-138	114	114
123.55	26°48.2'	115°49.7'	XII-12	1256	1311	503	0-142	95	95
127.34	26°55.3'	114°06'	XII-11	1858	1906	270	0-70	156	156
127.40	26°44'	114°28'	XII-11	1436	1451	527	0-140	116	116
127.50	26°23.5'	115°08'	XII-11	0721	0736	504	0-138	48	48
127.55	26°13.5'	115°27'	XII-11	0311	0326	502	0-140	22	22
127.30	26°29'	113°29'	XII-10	0518	0526	270	0-72	59	59
127.35	26°19'	113°48.5'	XII-10	0821	0836	483	0-141	166	166
130.40	26°09'	114°07.5'	XII-10	1326	1341	434	0-140	61	61
130.50	25°49'	114°46'	XII-10	1926	1941	495	0-139	234	73
133.25	26°04.5'	112°48'	XII-9	1103	1110	219	0-57	45	45
133.30	25°54.5'	113°07.5'	XII-9	1436	1451	409	0-135	137	137
133.40	25°34.5'	113°45.5'	XII-9	2101	2116	498	0-141	203	203
137.23	25°29.5'	112°17.5'	XII-9	0459	0505	222	0-64	148	148
137.30	25°19'	112°38.5'	XII-9	0137	0148	323	0-102	174	174
137.40	24°59'	113°23'	XII-8	1711	1726	478	0-141	98	98
140.30	24°45'	112°24'	XII-8	0232	0243	373	0-105	188	188

Plankton Volumes, Cruise 5512, December 1955 (cont'd)

Position			(1955)	Time (PST)		Vol. water strained	Depth of haul	Vol.per 1000 C.M.strained	
Sta.	N.lat.	W.long.	Date	Start	End	C.M.	in meters	Total cc.	Sm.org. cc.
140.35	24°36'	112°43'	XII-8	0546	0601	464	0-143	271	271
140.40	24°25.5'	113°02'	XII-8	0921	0936	445	0-135	175	175
143.26	24°19'	111°48'	XII-7	1953	2000	258	0-59	128	128
143.30	24°11'	112°03'	XII-7	1646	1701	474	0-144	239	239
143.35	24°01'	112°22'	XII-7	1256	1311	469	0-150	58	58
147.20	23°56'	111°03.5'	XII-6	2127	2139	445	0-116	270	270
147.25	23°46.5'	111°22.5'	XII-7	0111	0126	498	0-138	104	104
147.30	23°36'	111°41.5'	XII-7	0511	0526	485	0-143	78	78
150.19	23°23.7'	110°39'	XII-6	1406	1420	497	0-147	535	193
150.25	23°12'	111°01.5'	XII-6	0936	0951	503	0-138	68	68
150.30	23°04'	111°21'	XII-6	0406	0421	497	0-136	163	163